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December 29, 2004

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Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/719,058; Filed: November 24, 2003

For: Methods, Systems, and Computer Program Products for Parallel

Correlation and Applications Thereof

Inventors:

Rawlins et al.

Our Ref:

1744.1380000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Information Disclosure Statement;
- 2. Sixty-Four (64) sheets of Form PTO-1449 listing nine hundred fifty-seven (957) documents;
- 3. Two (2) Compact Discs labeled *IDS References Disc 1* and *IDS References Disc 2*; and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are

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Commissioner for Patents December 29, 2004 Page 2

necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

PEG/mlb Enclosures 349118_1.DOC



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Rawlins et al.

Appl. No.: 10/719,058

Filed: November 24, 2003

For:

Methods, Systems, and Computer Program Products for Parallel Correlation and Applications

Thereof

Confirmation No.: 9124

Art Unit: 2124

Examiner: (to be assigned)

Atty. Docket: 1744.1380000

Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

In addition to providing hard copies of the documents as required by applicable rules (see boxes 7 and 8 below), Applicants herewith provide two Compact Discs labeled "Disc 1" and "Disc 2" having stored thereon searchable electronic copies (in PDF format) of the documents listed on the PTO-1449. More specifically, "Disc 1" contains electronic copies of documents AA1-AR1, AA2-AR2, AA3-AR3, AA4-AR4, AA5-AR5, AA6-AR6, AA7-AR7, AA8-AR8, AA9-AR9, AA10-AL10, AN10-AR10, AA11-AI11, AN11-AR11, AA12-AI12, AN12-AR12, AA13-AI13, AN13-AR13, AA14-AI14, AN14-AR14, AA15-AI15, AN15-AR15, AA16-AI16, AN16-AR16, AA17-AI17, AN17-AR17, AA18-AI18, AN18-AR18, AA19-AI19, AN19-AR19, AA20-AI20, AN20-AR20, AA21-AI21, AN21-AR21, AA22-AI22, AN22-AR22, AA23-AI23, AN23-AR23, AA24-AI24, AN24-AR24, AA25-AI25, AN25-AR25, AA26-AI26, AN26-AR26, AA27-AI27, AN27-

AR27, AA28-AI28, AN28-AR28, AA29-AI29, AN29-AR29, AA30-AI30, AN30-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AA34-AI34, AN34-AR34, AA35-AI35, AN35-AR35, AA36-AI36, AN36-AR36, AA37-AI37, AN37-AR37, AA38-AI38, AN38-AR38, AA39-AI39, AN40-AR40, AN41-AR41, AN42-AR42, AN43-AR43, AN44-AR44, AN45-AR45, AN46-AR46, AN47-AR47, AN48-AR48, AN49-AR49, AN50, and AO50; and "Disc 2" contains electronic copies of documents AM10, AJ11-AM11, AJ12-AM12, AJ13-AM13, AJ14-AM14, AJ15-AM15, AJ16-AM16, AJ17-AM17, AJ18-AM18, AJ19-AM19, AJ20-AM20, AJ21-AM21, AJ22-AM22, AJ23-AL23, AA40-AI40, AA41-AI41, AA42-AI42, AA43-AI43, AA44-AI44, AA45-AI45, AA46-AI46, AA47-AI47, AA48-AI48, AA49-AI49, AA50-AI50, AP50-AR50, AA51-AI51, AN51-AR51, AA52-AI52, AN52-AR52, AA53-AI53, AN53-AR53, AA54-AI54, AN54-AR54, AA55-AI55, AN55-AR55, AA56-AI56, AN56-AR56, AA57-AI57, AN57-AR57, AA58-AI58, AN58-AR58, AA59-AI59, AN59-AP59, AA60-AI60, AA61-AI61, AA62-AI62, AA63-AI63, and AA64-AG64. The file names on the CDs correspond to the identifiers on the PTO-1449. It is noted that the CDs are being provided in addition to hard copies of the documents (as required by applicable rules) for the convenience of the Examiner.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AD1, AL1, AO1, AC2, AF2, AG2, AI2, AC5, AG5, AB6, AF7, AI7, AB8, AF8, AG9, AK9, AO9, AO11, AA12, AE14, AN14, AB15, AE15, AH15, AO15, AF16, AD18, AG18, AB20, AC20, AQ20, AA22, AH22, AI23, AC24, AF26, AC30, AH31, AC32, AA33, AR33, AH34, AP35 and AO48 were included with Petitions to Make Special pleadings in co-owned related U.S. Patent Nos. 6,061,551, 6,061,555, 6,049,706 and 6,091,940.

Documents AJ1, AL9, AJ10, AA19, AC25, AB30 and AF32 were cited in search reports in the corresponding foreign applications of the above-referenced co-owned related patents.

Documents AM4, AH6, AL7, AJ9, AM9, AC17, AA20, AG20, AG21, AA24, AD24, AG24, AI31, AA32, AG34, AD36 and AQ37 were cited in searches performed at Applicants' request by the European Patent Office's Searching Authority in the above-referenced co-owned related patents.

Documents AH5, AH17, AD21, AB34, AE34, AB36, AI36 and AI38 were cited by the Examiners in the above-referenced co-owned related patents.

Documents AP6-AR6 and AN7-AP7 are copies of Declarations (including Exhibits) made by Messrs. Bultman, Cook, Holtz, Looke, Moses, Parker, and Sorrells, filed in the above-referenced co-owned related patents.

Documents AA6, AD6, AO6, AE7, AE8, AA11, AE11, AH11, AI12, AB13, AD13, AH13, AC14, AG14, AE16, AB17, AF19, AD20, AN21, AG23, AH27, AI27,

AI28, AH29, AG30, AD37, AR40, AO49 and AQ49 were suggested or identified by potential licensees.

Documents AR21, AN22-AR22, AN23-AR23, AN24-AR24, AN25-AR25, AN26-AR26, AN27-AR27, AN28-AR28, AN29-AR29, AN30-AR30, AN31-AR31, AN32-AR32 and AN33-AP33 are press releases issued by assignee ParkerVision, Inc.

Documents AA1, AB1, AD1-AG1, AA2, AH21, AD44, and AD59-AF59 were cited by an Examiner in related U.S. Patent Application No. 09/569,044, filed May 10, 2000, entitled "Universal Platform Module and Methods and Apparatuses Relating Thereto Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Documents AJ1, AK9-AM9, AG28, AB30, AA32, AN52 and AP55 were cited by an Examiner in related European Patent Application No. 99954905.8, filed October 18, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter.

Documents AI7, AJ9, AK9, AG20, AG21, AB30 and AI43 were cited in a written opinion in related PCT Application No. PCT/US00/23923, filed October 18, 1999, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AI7, AE34, AA46, and AB48 were cited by an Examiner in related U.S. Patent Application No. 09/293,580, filed April 16, 1999, entitled "Method and System for Frequency Up-Conversion with a Variety of Transmitted Configurations," directed to related subject matter.

Documents AK9, AM9, AE15, AL19, AM19, AB46 and AA50 were cited in a search report in related PCT Application No. PCT/US01/08969, filed March 22, 2001, entitled, "Integrated Frequency Translation and Selectivity with a Gain Control Functionality, and Applications Thereof," directed to related subject matter.

Documents AK9, AE15, AK22-AM22, AA27, AC32, AE45, AI51, AA52, and AQ58 were cited in a search report in related PCT Application No. PCT/US01/15555, filed May 16, 2001, entitled, "Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals," directed to related subject matter.

Documents AK9, AC17, AD36 and AD40 were cited in a search report in related PCT Application No. PCT/US00/21359, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AJ10, AH17, AG28, AH34, AD44-AI44, and AA45-AD45 were cited by an Examiner in related U.S. Patent Application No. 09/261,129, filed March 3, 1999, entitled "Applications of Universal Frequency Translation," directed to related subject matter.

Documents AM10, AJ11, AK11 and AE40 were cited in a communication issued by the International Preliminary Examination Authority in related PCT Application No. PCT/US00/01108, filed January 19, 2000, entitled "Frequency Translation and Embodiments Thereof Such as the Family Radio Service," directed to related subject matter.

Documents AL11, AM11, AA44, and AQ50 were cited in a communication issued by the International Searching Authority in related PCT Application No.

PCT/US00/09911, filed April 14, 2000, entitled "Method And System For Down-converting an Electromagnetic Signal, And Transforms For Same," directed to related subject matter.

Documents AJ12, AK12, AE45, and AF45 were cited in a search report in related PCT Application No. PCT/US00/27555, filed October 6, 2000, entitled "DC Offset, Re-radiation, and I/Q Solutions Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AL12, AM12, AG45, and AH45 were cited in a search report in related PCT Application No. PCT/US00/34771, filed January 21, 2000, entitled "Phase Comparator Using Undersampling," directed to related subject matter.

Documents AJ13-AL13, AI45, and AB46 were cited in a search report issued in related PCT Application No. PCT/US00/27281, filed October 4, 2000, entitled "Frequency Converter and Method," directed to related subject matter.

Documents AL13, AM18, AJ19, and AI45 were cited in a search report in related PCT Application No. PCT/US00/31659, filed November 20, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter.

Documents AM13, AJ14, AK14, AM21, AJ22 and AQ51 were cited by an Examiner in related Japanese Patent Application No. 2000-577,765, filed June 21, 2000, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AL14, AM14, AJ15 and AK15 were cited by an Examiner in related Japanese Patent Application No. 2000-577,761, filed June 20, 2000, entitled "Method and System for Frequency Up-conversion," directed to related subject matter.

Documents AL15, AM15, AJ16-AM16, AJ17-AM17, AJ20, and AK23 were cited by an Examiner in related Japanese Patent Application No. 2000-577,764, filed June 21, 2000, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AJ18-AL18, AB47, AC47, AE47-AG47, AB48, and AC49 were cited by an Examiner in related U.S. Patent Application No. 09/489,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter.

Documents AK19 and AF48 were cited in a search report in related PCT Application No. PCT/US01/15111, filed October 5, 2001, entitled "Method and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Documents AK20, AL20, AJ21, AK21, AL21, AE42, AP56 and AQ56 were cited in a search report in related PCT Application No. PCT/US01/12086, filed April 13, 2001, entitled, "Frequency Converter," directed to related subject matter.

Documents AI23, AB30, and AB60-AE60 were cited by an Examiner in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Document AI23 and AD46 were cited by an Examiner in related U.S. Patent Application No. 09/293,095, filed April 16, 1999, entitled "Method and System for Down-Converting an Electromagnetic Signal Having Optimized Switch Structures," directed to related subject matter.

Documents AI23, AH50, AB55, AI59, and AA60 were cited by an Examiner in related U.S. Patent Application No. 09/525,185, filed March 14, 2000, entitled "Spread Spectrum Applications of Universal Frequency Translation Technology," directed to related subject matter.

Documents AI23 and AF60-AH60 were cited by an Examiner in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase-Shifting Applications of Universal Frequency Translation," directed to related subject matter.

Documents AJ23 and AB52 were cited in an Invitation to Pay Additional Fees in PCT Application No. PCT/US01/43077, filed November 14, 2001, entitled "Method and Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

Documents AL23, AH47, AB49, AG51, AF56-AH56, AO59, and AE61 were cited by an Examiner in related U.S. Patent Application No. 09/669,634, filed September 26, 2000, entitled "High Frequency Translator and Method of High Frequency Translation," directed to related subject matter.

Documents AC24, AD47, AA48, and AB50 were cited by an Examiner in related U.S. Patent Application No. 09/376,509, filed August 18, 1999, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AD35, AB44, AC44, AE46-AI46, and AA47 were cited by an Examiner in parent U.S. Patent Application No. 09/293,342, filed April 16, 1999, entitled "Method and System for Down-Converting Electromagnetic Signals Including Resonant Structures for Enhanced Energy Transfer," directed to related subject matter.

Documents AA38 and AG48 were cited by an Examiner in related U.S. Patent Application No. 09/476,091, filed January 3, 2000, entitled "Image-Reject Down-Converter and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Documents AI43, AH47 and AH48 were cited by an Examiner in related U.S. Patent Application No. 09/293,283, filed April 16, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter.

Documents AC46 and AA48 were cited by an Examiner in related U.S. Patent Application No. 09/670,831, filed September 28, 2000, entitled "Universal Frequency Translation, Embodiments Thereof, and a Web Site and Web Pages Directed to Same," directed to related subject matter.

Documents AH47, AI47, AA48-AE48, AB49, AF51, AG51, AC52, AG54, AF55, AC56, AD56, AI56, AA57, AD64, and AE64 are co-owned patents which are directed to related subject matter.

Documents AI47, AH50, AF55, AC56, AD56, AI56, AA57, and AH59 were cited by an Examiner in related U.S. Patent Application No. 09/838,387, filed April 20, 2001, entitled "Method and System for Down-Converting and Up-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter.

Documents AB48, AD48, AH54, AI54, and AA55-AC55 were cited by an Examiner in related U.S. Patent Application No. 09/548,923, filed April 13, 2000, entitled "Method and System for Frequency Conversion with Modulation Embodiments," directed to related subject matter.

Documents AB48, AE48, AD56, AI56, AG651, and AH61 were cited by an Examiner in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System, and Apparatus for Balanced Frequency Up-conversion of a Baseband Signal," directed to related subject matter.

Documents AI48, AA49, and AF50 were cited by an Examiner in related U.S. Patent Application No. 09/567,963, filed May 10, 2000, entitled "Frequency Synthesizer Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AD49-AI49 and AE51 were cited by an Examiner in related U.S. Patent Application No. 09/476,092, filed January 3, 2000, entitled "Analog Zero IF FM Decoder and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Documents AI49, AH50, AI50, AA51, AB51, AI62, AA63, and AB63 were cited by an Examiner in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

Documents AC50-AE50, AG50, AI50 and AC51 were cited by an Examiner in related U.S. Patent Application No. 09/476,330, filed January 3, 2000, entitled, "Multi-Mode, Multi-Band Communication System," directed to related subject matter.

Documents AH50, AA51 and AB51 were cited in by an Examiner in related U.S. Patent Application No. 09/526,041, filed March 14, 2000, entitled, "DC Offset, Re-radiation, and I/Q Solutions Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AH50, AC53-AI53, and AF61 were cited by an Examiner in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Family Radio System with Multi-Mode and Multi-Band Functionality," directed to related subject matter.

Documents AH50 and AB57-AE57 were cited by an Examiner in related U.S. Patent Application No. 09/567,978, filed May 10, 2000, entitled "Carrier and Clock Recovery Using Universal Frequency Translation," directed to related subject matter.

Documents AH51, AB56, AE56, AN58-AP58, AN59, AP59, and AG63 were cited by an Examiner in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AA52, AF52, AI52, and AG59 were cited by an Examiner in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AD52-AG52 and AC63-AF63 were cited by an Examiner in related U.S. Patent Application No. 09/986,764, filed November 9, 2001, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AA52, AE52, AH52, AI52, AA53, and AB53 were cited in a search report in related PCT Application No. PCT/US02/35861, filed November 8, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AA54-AD54 were cited in a search report in a related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AB54, AI61, AA62, and AB62 were cited in a Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AB54, AI61, and AA62-AH62 were cited by an Examiner in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AE54, AF54, AI60, AA61, and AB61 were cited by an Examiner in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down-converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter.

Documents AD55 and AE55 were cited by an Examiner in related U.S. Patent Application No. 09/543,867, filed April 5, 2000, entitled "Automated Meter Reader Applications of Universal Frequency Translation," directed to related subject matter.

Documents AG55 and AH55 were cited by an Examiner in related U.S. Patent Application No. 10/317,181, filed December 12, 2002, entitled "Differential Frequency Down-Conversion Using Techniques of Universal Frequency Translation Technology," directed to related subject matter.

Documents AI55, AA56, AC61, and AD61 were cited by an Examiner in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AF57 and AG57 were cited by an Examiner in related U.S. Patent Application No. 10/330,219, filed December 30, 2002, entitled "Methods and Systems for Down-Converting Electromagnetic Signals, and Applications Thereof," directed to related subject matter.

Documents AH57, AI57, AA58-AI58, and AA59 were cited by an Examiner in related U.S. Patent Application No. 09/566,188, filed May 5, 2000, entitled "Integrated Frequency Translation and Selectivity with Gain Control Functionality, and Applications Thereof," directed to related subject matter.

Documents AB59 and AC59 were cited by an Examiner in related U.S. Patent Application No. 09/632,856, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit Implementation," directed to related subject matter.

Documents AH63, AI63, AA64, and AB64 were cited by an Examiner in parent U.S. Patent Application No. 09/987,193, filed November 13, 2001, entitled "Method and

Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

Document AC64 was cited by an Examiner in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

Documents AF64 and AG64 were cited by an Examiner in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in A Communication System," directed to related subject matter.

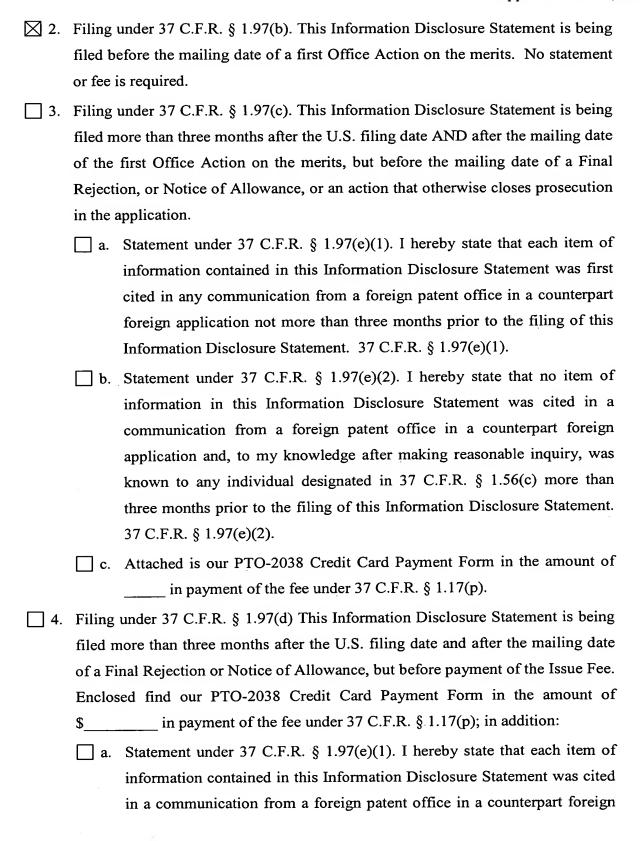
The other documents in the PTO-1449 do not fall within the above categories.

It is noted that some of these documents could be classified in more than one of the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.



application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

Document AJ1 (DE 42 37 692 C1) appears to be a receiver for a digital radio signal. Document AJ1 is a counterpart German application of document AG28, which is in the English language.

Document AK1 (EP 0 035 166 A1) appears to describe a digitized receiver. An English language abstract of document AK1 is enclosed as document AQ8.

Document AJ6 (EP 0 785 635 A1) appears to describe a method and apparatus for frequency diversity transmission using a plurality of uncorrelated carriers. An English language abstract of document AJ6 is enclosed as document AP8.

Document AK7 (FR 2 743 231 A1) is the corresponding French application of document AJ6 (EP 0 785 635 A1), which is described above.

Document AJ8 (JP 2-39632) appears to describe a transmitter for frequency diversity. An English language abstract of document AJ8 is enclosed as document AO8.

Document AK8 (JP 2-131629) appears to describe a transmitter-receiver for frequency diversity. An English language abstract of document AK8 is enclosed as document AN8.

Document AL8 (JP 2-276351) appears to describe an FSK demodulating circuit. An English language abstract of document AL8 is enclosed as document AR7.

Document AK11 (FR 2245130) appears to describe a converter. A partial English language translation of document AK11 is enclosed as document AP50.

Document AL11 (DE 3541031) appears to describe a method and device for demodulating high-frequency modulated signals. An English language translation of document AL11 is enclosed as document AR50.

Document AM11 (EP 0 732 803) appears to describe a procedure and device for demodulation by sampling. An English translation of document AM11 is enclosed as document AN51.

Document AJ12 (DE 19735798) appears to describe a transceiver. An English translation of document AJ12 is enclosed as document AP51.

Document AM13 (JP 56-114451) appears to describe a system for diversity radio transmission. Document AM13 is a counterpart Japanese application of document AF8, which is in the English language.

Document AJ14 (JP 8-32556) appears to describe a data transmitter-receiver. An English language abstract of document AJ14 is enclosed as document AO52.

Document AK14 (JP 8-139524) appears to describe a frequency converting circuit and radio communication device. An English language abstract of document AK14 is enclosed as document AP52.

Document AL14 (JP 59-144249) appears to describe a pulse signal transmission system. An English language abstract of document AL14 is enclosed as document AQ52.

Document AM14 (JP 63-54002) appears to describe a microwave burst signal generator which incorporates a FET frequency multiplier. An English language abstract of document AM14 is enclosed as document AR52.

Document AJ15 (JP 6-237276) appears to describe a quadrature modulator. An English language abstract of document AJ15 is enclosed as document AN53.

Document AK15 (JP 8-23359) appears to describe a digital quadrature modulation device. An English language abstract of document AK15 is enclosed as document AO53.

Document AL15 (JP 47-2314) appears to describe a demodulator. An English language translation of document AL15 is enclosed as document AP53.

Document AM15 (JP 58-7903) appears to describe a switched capacitor modulator. A partial English language translation of document AM15 is enclosed as document AQ53.

Document AJ16 (JP 58-133004) appears to describe an amplitude detector. An English language abstract of document AJ16 is enclosed as document AR53.

Document AK16 (JP 60-58705) appears to describe a frequency converting circuit. An English language abstract of document AK16 is enclosed as document AN54.

Document AL16 (JP 4-123614) appears to describe a level converting circuit. An English language abstract of document AL16 is enclosed as document AO54.

Document AM16 (JP 4-127601) appears to describe a frequency conversion circuit. An English language abstract of document AM16 is enclosed as document AP54.

Document AJ17 (JP 5-175730) appears to describe a time division direct receiver. An English language abstract of document AJ17 is enclosed as document AQ54.

Document AK17 (JP 5-175734) appears to describe an FM demodulator. An English language abstract of document AK17 is enclosed as document AR54.

Document AL17 (JP 7-154344) appears to describe a receiver for receiving modulated carrier signals and an IQ mixer/demodulator using it's receiving

constitution. An English language abstract of document AL17 is enclosed as document AN55.

Document AM17 (JP 7-307620) appears to describe a bottom detection circuit. An English language abstract of document AM17 is enclosed as document AO55.

Document AJ18 (JP 55-66057) appears to describe a bar-code detection circuit. An English language abstract of document AJ18 is enclosed as document AQ55.

Document AK18 (JP 63-65587) appears to describe a wireless light pen device. An English language abstract of document AK18 is enclosed as document AR55.

Document AL18 (JP 63-153691) appears to describe a data transfer for a semiconductor data carrier system. An English language abstract of document AL18 is enclosed as document AN56.

Document AJ20 (JP 60-130203) appears to describe a frequency converter. An English language abstract of document AJ20 is enclosed as document AO56.

Document AK20 (DE 196 27 640 A1) appears to describe a mixer. Document AK20 is a counterpart German application of document AA33, which is in the English language.

Document AL20 (EP 0 087 336 A1) appears to describe a transistorized mixer for microwave transmitters. The granted version of document AL20 is cited as document AM20 (EP 0 087 336 B1) and contains an English language version of the claims.

Document AK21 (FR 2 669 787 A1) appears to describe a symmetrical super high frequency mixer. An English language abstract of document AK21 is enclosed as document AR56.

Document AM21 (JP 61-30821) appears to describe a squelch device. An English language abstract of document AL21 is enclosed as document AP57.

Document AJ22 (JP 5-327356) appears to describe a frequency converter. An English language abstract of document AJ22 is enclosed as document AQ57.

Document AK23 (JP 9-36664) appears to describe a frequency conversion circuit. An English language abstract of document AK23 is enclosed as document AR58.

Document AL23 (DE 196 48 915 A1) appears to describe a process of frequency conversion. An English language translation of document AL23 is enclosed as document AO59.

Document AQ50 (Fest et al.) appears to discuss analog-digital converters. An English language translation of document AQ50 is enclosed as document AO51.

Document AQ51 (Miki et al.) appears to describe modulation systems. A partial English language translation of document AQ51 is enclosed as document AR51.

- ☑ 7. In accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are not enclosed.
- With the exception of documents AAE64, AF64, and AG64, copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R.

 § 1.98(a)-(c) in Application No. 09/987,193, filed November 13, 2001, which is relied upon for an earlier filing date under 35 U.S.C.

 § 120. Thus, copies of the documents are not attached. 37 C.F.R.

 § 1.98(d).
- ∑ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no. 09/987,193, filed November 13, 2001, in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett Attorney for Applicants Registration No. 39,987

Date: 12/29/

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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ATION DISCLOSURE STATEMENT

APPLICATION NO. ATTY. DOCKET NO. 1744.1380000 10/719,058 FIRST NAMED INVENTOR Gregory S. Rawlins GROUP FILING DATE

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EXAMINER INITIAL			CUMENT IBER	DATI	=	NAM	IE		CLASS	SUB- CLASS	FILING DATE
	AA1	2,05	7,613	10/19	936	Gard	Iner				
	AB1	2,24	1,078	05/19	941	Vreeland Skillman Roberts Earp Labin et al. Barone					
	AC1	2,27	0,385	01/19	942					-	
	AD1	2,28	3,575	05/19	942						
	AE1	2,35	8,152	09/19	944						
	AF1	2,41	0,350	10/19	946						
	AG1	2,45	1,430	10/19	948						<u> </u>
	AH1	2,46	462,069 02/19		949	Chat	terjea <i>et al</i> .				
	Al1	2,46	2,181	02/19	949	Gros	selfinger				
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EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE	į	COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ1	DE 4	12 37 692 C1		03/1994		DE				No
	AK1	EP 0 035 166 A1		09/1981		EP				No	
	AL1	EP 0	193 899 B1		06/1990		EP				N/A
	AM1	EP 0	EP 0 380 351 A2		08/1990		EP				N/A
	•	<u></u>	ОТНІ	ER (In	cluding Aut	hor, T	itle, Date, Pertinent Pa	ges, etc	:.)		
	AN	1	Aghvami, H.	et al., ationa	"Land Mobile I Conference	e Sate	llites Using the Highly El atellite Systems for Mobi	liptic Or	bits- The L	IK T-SAT Mo s and Naviga	bile Payload," tion, IEE, pp. 147-
	AO	<u>1</u>	Akers, N.P. 6 49 (January		RF Samplinç	g Gate	es: a Brief Review,* <i>IEE I</i>	Proceed	ings, IEE, \	Vol. 133, Par	t A, No. 1, pp. 45-
	Al-Ahmad, H.A.M. <i>et al.</i> , "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesize</i> IEE, pp. 4/1-4/5 (January 23, 1986).										
	AQ	1	Ali, I. <i>et al.</i> , " 46, No. 3, pp				for LEO Satellites," <i>IEE</i>	E Trans	actions on	Communicat	ions, IEEE, Vol.
	AR	<u>1</u>	Allan, D.W., Stability, IEE				quency Standards," <i>Proc</i> y 1966).	eedings	Of The IE	EE Special Is	ssue on Frequency
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ATTY. DOCKET NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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-	AA2	2,47	2,798	06/19	949	Fredendall				1			
	AB2	2,49	7,859	02/19	950	Boug	htwood et al.						
	AC2	2,49	9,279	02/19									
	AD2	2,80	2,208	08/19	957	Hobi	os						
	AE2	2,98	35,875	05/19	961	Griso	dale et al.						
**	AF2	3,02	23,309	02/19	962	Foul	kes						
	AG2	3.06	9,679	12/19	962	Swe	eney <i>et al</i> .			1	.,		
	AH2	_	04,393	09/19			elman						
	AI2		4,106	12/19		 	lanus						
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	AJ2				02/1991		EP				N/A		
	AK2	EP (0 411 840 A2	02/1991		EP				N/A			
	AL2	EP (0 411 840 A3		07/1991		EP				N/A		
	AM2	EP (0 411 840 B1	10/1995		EP				N/Ą			
	•		ОТНІ	ER (In	cluding Aut	hor, T	itle, Date, Pertinent Pag	es, etc	;.)				
	AN	2	Allstot, D.J. 6 SC-13, No. 6				pacitor Ladder Filters," <i>IE</i> r 1978).	EEE Jo	urnal of Sol	id-State Circ	uits, IEEE, Vol.		
	AO	2	Allstot, D.J. a Filtering Syst	and Bla ems,"	ack Jr. W.C., <i>Pr</i> oceedings	, "Tecl s of the	nnological Design Conside B IEEE, IEEE, Vol. 71, No	eration . 8, pp	s for Monol . 967-986 (<i>j</i>	ithic MOS Sv August 1983)	vitched-Capacitor		
	AP	2	Alouini, M. et Proceedings	t al., "C Of the	Channel Cha IEEE, IEEE	racteri , Vol.	zation and Modeling for k 85, No. 6, pp. 981-997 (Ju	(a-Ban une 19	d Very Sma 97).	ill Aperture T	erminals,"		
	AQ	2	Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).										
	AR 2 Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," Optics Communications, North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).												
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.1380000

FIRST NAMED INVENTOR
Gregory S. Rawlins

FILING DATE

APPLICATION NO.

10/719,058

GROUP

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EXAMINER INITIAL		NUMBER		DAT	E	NAME		CLASS	SUB- CLASS	FILING DATE		
	AA3	3,11	8,117	01/19	964	King	et al.					
	AB3	3,22	6,643	12/19	965	McN	air					
	AC3	3,25	8,694	06/19	966	Shep	herd					
	AD3	3,38	3,598	05/19	968	Sanders		T				
	AE3	3,38	4,822	05/19	968	Miyagi						
	AF3	3,45	4,718	07/19	969	Perreault						
	AG3	3,52	3,291	08/19	970	Pierr	et			1 .		
	AH3	3,54	8,342	12/19	970	Maxey						
	AI3	3,55	5,428	01/19	971	Perre	eault			i i		
							ENT DOCUMENTS		•			
EXAMINER INITIAL		DOCUMENT NUMBE		BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
	AJ3	EP (0 423 718 A2		04/1991		EP			N//		
	AK3	EP (0 423 718 A3		08/1992		EP			N//		
	AL3	EP (0 486 095 A1		05/1992		EP			N//		
	AM3	EP (0 486 095 B1		02/1997		EP			N//		
			ОТНІ	ER (In	cludina Aut	hor. T	itle, Date, Pertinent Pa	aes. etc.)		•		
****	Austin, J. et al., "Doppler Correction of the Telecommunication Factoring and Property of Physics Vol. 26 No. 3 pp. 101-103 (February 1. 19)									. :		
		_	Institute of Physics, Vol. 26, No. 3, pp. 101-103 (February 1, 1975).									
	AP	<u>3</u>	Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986). Baines, R., "The DSP Bottleneck," <i>IEEE Communications Magazine</i> , IEEE Communications Society, pp. 46-54 (May 1995).									
	AQ	3										
	AR	3	Banjo, O.P. and Vilar, E., "Binary Error Probabilities on Earth-Space Links Subject to Scintillation Fading," Electronics Letters, IEE, Vol. 21, No. 7, pp. 296-297 (March 28, 1985).									
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA4	3,61	17,892	11/19	971	Haw	ley et al.						
	AB4	3,62	21,402	11/19	971	Gard	ner						
·	AC4	3,62	23,160	11/19	971	Giles	et al.	Ĭ					
	AD4	3,62	26,417	12/19	971	Gilbert Bartelink Gans et al. Bello et al.							
	AE4	3,62	29,696	12/1	971								
	AF4	3,66	52,268	05/19	972								
•	AG4	3,68	39,841	09/19	972								
	AH4	3,71	14,577	01/19	973	Haye	es						
	Al4	3,71	17,844	02/1	973	Barre	et et al.						
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EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION			
	AJ4	EP (0 512 748 A2		11/1992		EP			N/A			
- .	AK4	EP (0 512 748 A3	07/1993	•	EP			N/A				
	AL4	EP (0 512 748 B1	11/1998		EP			N/A				
	AM4	EP (0 548 542 A1	06/1993		EP .			N/A				
			OTH	FR (In	cluding Aut	hor T	itle, Date, Pertinent Pag	es. etc.)					
	AN	4	Banjo, O.P. a Parameters, pp. 277-280	' Fifth .	International	Confe	Dependence of Slant Path Amplitude Scintillations on Various Meteorological Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IEE, , 1987).						
	AO	4	Paths and In	npact o	on Communic	cation	ent and Modeling of Ampli Systems," IEEE Transac 780 (August 1986).	tude Scintillations tions on Commun	on Low-Elev ications, IEEI	ration Earth-Space E Communications			
	AP	4	Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).										
	AQ	4	Basili,P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antennas and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).										
	AR	4					C ² and Turbulent Path Le I-1116 (August 18, 1988)		ce-Earth Link	.," Electronics			
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	AA5	3,735		05/1973		Tomsa et al.				ļ	· · · · · · · ·		
	AB5	3,806	5,811	04/1974		Thom	pson						
	AC5	3,868	3,601	02/1975		MacA	fee				 		
	AD5	3,949	,300	04/19		Sadle	<u>r</u>						
	AE5	3,967	7,202	06/19	76	Batz				 			
	AF5	3,980),945	09/19	76	Bickfo	ord			+			
	AG5	3,987	7,280	10/19	76	Baue	<u> </u>			 			
	AH5	3,99	1,277	11/19	76	Hirata							
	AI5	4,00	3,002	01/19			ers et al.						
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	AJ5	EP 0	632 288 A2		01/1995		EP				N/A		
	AK5	EP (632 288 A3		07/1996		EP				N/A N/A		
	AL5	EP (696 854 A1		02/1996		EP				N/A		
	AM5	EP (782 275 A2		07/1997		EP				19/2		
			ОТН	ER (In	cluding Au	thor, T	itle, Date, Pertinent P	ages, etc	.)				
	AN	<u>5</u> .	Blakey, J.R. Region," <i>Ele</i>	et al., ' ectronic	"Measuremes Letters, IE	ent of A	Atmospheric Millimetre 21, No. 11, pp. 486-4	-Wave Pha 87 (May 2	ase Scintil 3, 1985).	lations in an	Absorption		
	AO	<u>5</u>	Burgueño, A communica (September	tions," a	annales des	of rain tèlèco	gauge integration time <i>mmunications</i> , Internat	on the rai	n rate sta n of Radio	tistics used in Science, pp	n microwave 5. 522-527		
	AP	<u>5</u>	Application	to Micr	owave Com	munica	Statistical Analysis of ations," <i>Fifth Internation</i> -201 (March 30 - April	nai Conter	and Intens ence on A	ity of Rainfall ntennas and	Rate with Propagation (ICAP		
	AQ	<u>5</u>	Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 297-301 (April 4-7, 1989).										
	AR	Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (Septembe 1990).											
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Page 6 of 64 ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058 FORM PTO-1449 FIRST NAMED INVENTOR Gregory S. Rawlins INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP November 24, 2003 To Be Assigned **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER **CLASS** AA6 4,013,966 03/1977 Campbell AB6 4,019,140 04/1977 Swerdlow AC₆ 4,035,732 07/1977 Lohrmann 09/1977 AD6 4,047,121 Campbell AE6 4,066,841 01/1978 Young AF6 01/1978 4,066,919 Huntington AG6 4,081,748 03/1978 Batz AH6 12/1978 Arakelian et al. 4,130,765 12/1978 AI6 4,130,806 Van Gerwen et al. **FOREIGN PATENT DOCUMENTS EXAMINER** CLASS **TRANSLATION** INITIAL **DOCUMENT NUMBER** DATE COUNTRY SUB-**CLASS** AJ6 EP 0 785 635 A1 07/1997 EP No AK6 EP 0 795 978 A2 09/1997 EP N/A N/A AL6 EP 0 837 565 A1 04/1998 EP EP 0 862 274 A1 09/1998 N/A AM6 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," Electronics Letters, IEE, Vol. 34, AN 6 No. 12, pp. 1238-1240 (June 11, 1998). Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," European Solid State Circuits AO <u>6</u> Conference, IEEE Communication Society, pp. 210-213 (September 22-24, 1993). Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to AP 6 related subject matter, 2 pages. Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to AQ <u>6</u> related subject matter, 2 pages. Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related AR 6 subject matter, 3 pages.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. APPLICATION NO. 10/719,058 1744.1380000 FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA7	4,14	2,155	02/19	979	Adad	:hi						
	AB7		0,764	10/19	979	Salz et al.			1				
	AC7	4,20)4,171	05/19	980 Sutphin, Jr.			1					
	AD7	4,21	0,872	07/19	980	Greg	orian	•					
	AE7	4,24	5,355	01/1981		Pasc	oe et al.						
	AF7	4,25	3,066	02/19	981	Fishe	er et al.						
	AG7	4,25	3,069	02/19	981	Noss	ek						
	AH7	4,30	8,614	12/19	981	Fishe	er et al.						
	AI7	4,32	20,361	03/19	982	Kikke	ert						
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	AJ7 EP 0 874 499 A2			10/1998		EP				N/A			
	AK7	FR:	2 743 231 A1	07/1997		FR				No			
	AL7	GB	2 161 344 A		01/1986		GB				N/A		
	AM7	GB	B 2 215 945 A		09/1989		GB				N/A		
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	AN	7	Copy of Decl related subje				oke filed in patent applica	ation S	er. No. 09/17	'6,022, which	is directed to		
	AO	7	Copy of Decl related subje				ses, Jr. filed in patent ap	plication	on Ser. No. 0	09/176,022, w	hich is directed to		
	AP	7	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 130 pages.										
	AQ	7	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," <i>Electronics Division Colloquium on Digitally Implemented Radios</i> , IEE, pp. 3/1-3/5 (October 18, 1985).										
	AR	7	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, 1 page (November 13, 1990 - Date of publication of application).										
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA8	4,32	20,536	03/19	982	Dietr	rich						
	AB8	4,34	16,477	08/19	982	Gordy							
	AC8	4,35	55,401	10/19	982	Ikom	na et al.						
	AD8	4,35	56,558	10/19	982	Owe	n et al.						
	AE8	4,36	60,867	11/19	982	Gon	da						
	AF8	4,36	63,132	12/19	982	Colli	n						
	AG8	4,365,217 12/198		982	Berg	jer et al.				"			
	AH8	4,37	70,572	01/19	983	Cosa	and et al.						
	AI8	1		06/19	983	Steir	1						
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EXAMINER INITIAL		DOG	CUMENT NUMBE	ER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION		
	AJ8	AJ8 JP 2-39632			02/1990		JP				No		
	AK8	JP 2	2-131629		05/1990		JP				No -		
	AL8	JP 2	2-276351	11/1990		JP				No			
	AM8	wo	80/01633 A1	08/1980		PCT				N/A			
		<u> </u>	OTHER	R (Inc	cluding Aut	hor, T	itle, Date, Pertinent Pa	iges, et	c.)				
	AN	8	DIALOG File 3 publication of a			ish La	nguage Patent Abstract	for JP 2	-131629, 1	page (May 2 ⁻	1, 1990 - Date of		
	AO	8	DIALOG File 3 publication of a			ish La	nguage Patent Abstract	for JP 2	-39632, 1 p	age (Februar	y 8, 1990 - Date of		
	AP	8	DIALOG File 3 (December 26,	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, 3 pages (December 26, 1996 - Date of publication of application).									
	AQ	<u>8</u>	DIALOG File 3- 18, 1981 - Date				English Language Pate cation).	nt Abstr	act for EP 3	35166 A1, 2 p	pages (February		
	AR 8 "DSO takes sampling rate to 1 Ghz," <i>Electronic Engineering</i> , Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).										ol. 59, No. 723, pp.		
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Page 9 of 64

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA9	4,39	2,255	07/19	983	Del Giudice						
	AB9	4,43	0,629	02/19	984	Betzl et al.						
	AC9	4,44	6,438	05/19	984	Char	Chang et al.					
	AD9	4,45	6,990	06/19	984	Fisher et al.						
	AE9	4,47	2,785	09/19	34 Kasuga		ga					
	AF9	4,47	9,226	10/19	984	Prabhu et al. Huntley						
	AG9	4,48	1,490	11/19	984							
	AH9	+	31,642	11/1984		Hans				<u> </u>		
	Al9	+	15,488	11/19		Houd	·					
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	AJ9	wo	94/05087 A1	03/1994			PCT				N//	
	AK9	K9 WO 96/02977 A1			02/1996		PCT				N//	
	AL9	wo	96/08078 A1	03/1996			PCT				N//	
	AM9	wo	96/39750 A1		12/1996		PCT				N//	
			ОТН	ER (Inc	cluding Aut	hor, T	itle, Date, Pertinent P	ages, e	etc.)			
	AN	9	Erdi, G. and Ratio," <i>IEEE</i>	Henne Journa	use, P.R., "/ al of Solid-Si	A Preci	ision FET-Less Sample rcuits, IEEE, Vol. SC-1	e-and-H 3, No. 6	lold with High 5, pp. 864-87	Charge-to-D 3 (December	Proop Current 1978).	
	AO	9	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).									
	AP	9	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," CPEM 82 Digest: Conference on Precision Electromagnetic Measurements, IEEE, pp. M-10 and M-11 (1982).									
	AQ	9	Faulkner, N.I Techniques," (1984).	D. and CPE	Vilar, E., "Ti A 84 Digest	ime Do	omain Analysis of Frequence on Precision Elec	uency S ctromag	Stability Using Inetic Measur	Non-Zero D rements, IEE	ead-Time Counter E, pp. 81-82	
***	AR	9	Amplitude So	intillati	ions and Rai	in Atte	ation of the Channel Canuation," <i>IEEE Transac</i> 55 (November 1990).	apacity	of a Satellite	Link in the Pations, IEEE	resence of Communications	
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APPLICATION NO. ATTY. DOCKET NO. 10/719,058 1744.1380000 FIRST NAMED INVENTOR FORM PTO-1449 Gregory S. Rawlins INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE To Be Assigned November 24, 2003 U.S. PATENT DOCUMENTS FILING DATE CLASS SUB-**EXAMINER** NAME DATE CLASS DOCUMENT INITIAL NUMBER Lee et al. 03/1985 4,504,803 **AA10** Mukaiyama 05/1985 AB10 4,517,519 Ogawa 05/1985 4,517,520 AC10 van Roermund 05/1985 4,518,935 AD10 Vance et al. 06/1985 4,521,892 AE10 Dixon, Jr. et al. 07/1986 AF10 4,563,773 Reed 03/1986 4,577,157 AG10 Vance 04/1986 4,583,239 AH10 Hirao et al. 05/1986 4,591,736 A110 FOREIGN PATENT DOCUMENTS TRANSLATION SUB-**CLASS** EXAMINER COUNTRY CLASS DATE DOCUMENT NUMBER INITIAL N/A PCT 10/1997 WO 97/38490 A1 AJ10 N/A PCT 01/1998 WO 98/00953 A1 AK10 N/A PCT 06/1998 WO 98/24201 A1 AL₁₀ N/A EP 01/1984 EP 0 099 265 A1 **AM10** OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984). <u>10</u> AN Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," IEE Proceedings-H: Microwaves, Antennas and Propagation, IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988). 10 ΑO Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," IEE Proceedings, IEE, Vol. 134, Pt. H, No.2, pp. 169-173 (April 1987). <u>10</u> ΑP Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," Microwaves & RF, Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984). <u>10</u> AQ Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," Radio Science, American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981). <u>10</u> AR DATE CONSIDERED **EXAMINER EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA11	4,60	2,220	07/19	986	Kurihara Welles, II et al. Ishikawa et al. Gans et al. Galani et al. Saxe et al.					
	AB11	4,60	3,300	07/19	986						
	AC11	4,61	2,464	09/19	986						
	AD11	4,61	2,518	09/19	986						
	AE11	4,61	6,191	10/19	986						
	AF11	4,62	1,217	11/19	986						
	AG11	4,62	8,517	12/19	986	Sch	warz et al.				
	AH11 4,634,998 01		01/19	987	Cra	wford					
	Al11	4,64	8,021	03/19	987	Albe	erkrack				
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EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ11	EP (O 560 228 A1		09/1993		EP				N/A
	AK11	(11 FR 2 245 130			04/1975		FR				Yes (See AP50)
v ·	AL11	DE :	DE 35 41 031 A1		05/1986		DE .				Yes (See AR50)
	AM11	EP (732 803 A1	<u>.</u>	09/1996		EP				Yes (See AN51)
			ОТН	ER (In	cluding Aut	hor, '	Title, Date, Pertinent Pages	, etc.)			
	AN	11	Gregorian, R 941-966 (Au			Capa	citor Circuit Design," <i>Proceed</i>	dings of	the IEE	EE, IEEE, Vol	. 71, No. 8, pp.
	AO	<u>11</u>	Groshong et 67-68, 70, 73				chniques Simplify Digital Rad 91).	io," <i>Elec</i>	tronic L	Design, Pento	on Publishing, pp.
	АР	<u>11</u>	Grove, W.M. Microwave T	, "Sam heory	npling for Osc and Techniq	cilloso ues, l	copes and Other RF Systems IEEE, pp. 629-635 (Decembe	s: Dc threer 1966).	ough X	-Band," <i>IEEE</i>	Transactions on
	AQ	11	Haddon, J. e Propagation,				ficrowave Scintillations on a	Satellite	Down-	Link at X-Bar	nd," Antennas and
	AR	11	Haddon, J. a Paths and th 34, No. 5, pp	e Influ	ence of Ante	nna A	Induced Microwave Scintillat Aperture," IEEE Transactions	ions fror on Ante	n Clear ennas a	r Air and Rain and Propagati	on Earth Space on, IEEE, Vol. AP-
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FIRST NAMED INVENTOR Gregory S. Rawlins

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Gregory S. Rawlins INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP November 24, 2003 To Be Assigned **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME CLASS SUB-**FILING DATE** NUMBER **CLASS AA14** 4,801,823 01/1989 Yokoyama AB14 02/1989 Sone 4,806,790 AC14 4,810,904 03/1989 Crawford AD14 4,810,976 03/1989 Cowley et al. AE14 4,811,362 03/1989 Yester, Jr. et al. AF14 4.819,252 04/1989 Christopher AG14 4,833,445 05/1989 Buchele 08/1989 Hochschild et al. AH14 4,862,121 09/1989 AI14 4,868,654 Juri et al. **FOREIGN PATENT DOCUMENTS EXAMINER CLASS TRANSLATION** INITIAL **DOCUMENT NUMBER** DATE COUNTRY SUB-**CLASS** AJ14 JP 8-32556 02/1996 JP No AK14 JP 8-139524 05/1996 JΡ No No AL14 08/1984 JP JP 59-144249 AM14 JP 63-54002 03/1988 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Itakura, T., "Effects of the sampling pulse width on the frequency characteristics of a sample-and-hold circuit," ΑN 14 IEE Proceedings Circuits, Devices and Systems, IEE, Vol. 141, No. 4, pp. 328-336 (August 1994). Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," Philips Technical Review, Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August AO 14 Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," *Philips Technical Review*, Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 AP 14 (September 1950). Jondral, V.F. et al., "Doppler Profiles for Communication Satellites," Frequenz, Herausberger, pp. 111-116 (May-AQ 14 June 1996). Kaleh, G.K., "A Frequency Diversity Spread Spectrum System for Communication in the Presence of In-band AR 14 Interference," 1995 IEEE Globecom, IEEE Communications Society, pp. 66-70 (1995).

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FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA15	4,87	0,659	09/19	989	Ois	shi et al.				
	AB15	4,87	1,987	10/19	989	Ka	wase .				
	AC15	4,88	5,587	12/19	989	Wi	egand et al.				
	AD15	4,88	5,756	12/19	989	Fo	ntanes et al.				
	AE15	4,88	8,557	12/19	989	Pu	ckette, IV et al.				
	AF15	4,89	0,302	12/19	989	Μι	ilwijk				
	AG15	4,89	3,316	01/19	990	Ja	nc et al.				
	AH15	4,89	3,341	01/19	990	Ge	hring				
	Al15	4,89	4,766	01/19	990	De	Agro				1
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	AJ15	JP 6	-237276		08/1994		JP				No
	AK15	JP 8	-23359		01/1996		JP				No
	AL15	JP 4	7-2314		02/1972	02/1972 JP					Yes (Doc. AP53)
	AM15	JP 5	8-7903		01/1983		JP				Partial (Doc. AQ53)
	<u>-</u>		ОТН	ER (In	cluding Aut	hor,	Title, Date, Pertinent Page	s, etc.)			
	AN	<u>15</u>	Karasawa, Y Transactions 1614 (Nover	on An	itennas and i	edict <i>Prop</i>	ion Method for Tropospheric pagation, IEEE Antennas and	Scintillati I Propaga	on on E ition So	Earth-Space F ciety, Vol. 36	Paths," <i>IEEE</i> , No. 11, pp. 1608-
	AO	<u>15</u>	Kirsten, J. a. Cahners Pul	nd Flen blishing	ning, J., "Und 1, Vol. 35, No	ders o. 13	ampling reduces data-acquis i, pp. 217-222, 224, 226-228	sition cost (June 21	s for se , 1990).	elect applicati	ons," <i>EDN</i> ,
	AP	15	Lam, W.K. e Identifier," <i>P</i> 2-4, 1993).	t al., "N roceed	Measuremen lings Of the 1	t of 1	the Phase Noise Characteris IEEE International Frequenc	tics of an	Unlock I Symp	ed Communi osium, IEEE,	cations Channel pp. 283-288 (June
	AQ	<u>15</u>	Lam, W.K. e 9, pp. 738-73			und	ing of 11.6 Ghz transhorizon	channel,	' Electro	onics Letters,	IEE, Vol. 30, No.
,	AR	<u>15</u>	Larkin, K.G. pp. 101-102	"Effici (Janua	ent demodul ary 18, 1996)	ator	for bandpass sampled AM s	ignals," <i>E</i>	Electron	ics Letters, IE	EE, Vol. 32, No. 2,
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FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA16	4,89	6,152	01/1	990	Tiem	ann				
	AB16	4,90	2,979	02/19	990	Puck	ette, IV				
	AC16	4,90	8,579	03/19	990	Tawf	ik et al.				
	AD16	4,91	0,752	03/19	990	Yest	er, Jr. et al.				
	AE16	4,91	4,405	04/19	990	Well	s				
	AF16	4,92	0,510	04/19	990	Send	lerowicz et al.				
	AG16	4,92	2,452	05/1	990	Larse	en et al.				
	AH16	4,93	1,921	06/19	990	Ande	erson				
	Al16	4,94	4,025	07/19	990	Gehr	ring et al.				
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	AJ16	JP 5	8-133004		08/1983		JP				No
	AK16	JP 6	60-58705		04/1985		JP		-0		No
•	AL16	JP 4	-123614		04/1992		JP				No
	AM16	JP 4	-127601		04/1992		JP				No
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	AN	<u>16</u>	Lau, W.H. et IEEE Global 1988).	al., "A Teleco	nalysis of th	e Time	e Variant Structure of Min enference & Exhibition, IE	crowave l EE, pp. 1	.ine-of-siç 707-1711	ght Multipath (November 2	Phenomena," 28 - December 1,
	AO	<u>16</u>	Lau, W.H. <i>et</i> No. 20, pp. 1				orithm to Identify Multipa , 1987).	th Comp	onents," <i>E</i>	Electronics Le	etters, IEE, Vol. 23
	АР	<u>16</u>	Lesage, P. a Transactions 28, No. 1, pp	on Ins	strumentatio	n and i	Dead-Time on the Estim Measurement, IEEE Inst	ation of th rumentati	ne Two-Sa on and M	ample Varian leasurement s	ce," <i>IEEE</i> Society, Vol. IM-
	AQ	<u>16</u>	Speed Modu	lators,	" IEEE Trans	saction	ate GaAs MESFET's as as on Microwave Theory . 6, pp. 461-469 (June 1	and Tech	trolled Lo	w-Noise Amp EEE Microwa	olifiers and High- ve Theory and
	AR .	<u>16</u>	Linnenbrink, Science, IEE	T.E. e E Nuc	t al., "A One lear and Pla	Gigas sma S	ample Per Second Transciences Society, Vol. NS	sient Rec -26, No.	order," <i>IE</i> 4, pp. 444	EE Transacti 13-4449 (Aug	ons on Nuclear ust 1979).
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	AA17	4,955,079	00/400	90	Conne	rney et al.		 	
	AB17	4,965,46	404400	90	Bilterijs			1	
	AC17	4,967,16	40/40	90	Quievy			1	
	AD17	4,970,70		90		ran et al.			
	AE17	4,982,35	04/40	91	Jacob	et al.			
	AF17	4,984,07		91	Uchid				
	AG17	4,995,05		91		oerger et al.			
	AH17	5,003,62	00/40	91	Gailus			T	
	AI17	5,005,16		991		der et al.			
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	AJ17	JP 5-17		07/1993		JP	41	1	No No
	AL17	JP 7-1		06/1995		JP			No
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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INFORMATION DISCLOSURE STATEMENT

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	AC19	5,09	5,533	03/19	992	Lo	per et al.						
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	AD21		20,680	06/19		Lee					
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	AO	<u>21</u>	Peeters, G. o Measuremer 88 (March-A	its." In	ternational J	of Stati Iourna	stical Models for Clear-A of Satellite Communicat	ir Scintilla ions, Joh	ation Pred n Wiley a	diction Using and Sons, Vol	Olympus Satellite . 15, No. 2, pp. 73-
	AP	<u>21</u>	Perrey, A.G. Dept. of Con	and Somerce	choenwetter e, pp. 1-14 (f	r, H.K. May 19	, NBS Technical Note 11 980).	21: A Scl	ottky Dic	ode Bridge Sa	ampling Gate, U.S.
	AQ	<u>21</u>	Poulton, K. <i>e</i> pp. 962-969				System," IEEE Journal	of Solid-S	tate Circ	uits, IEEE, Vo	ol. SC-22, No. 6,
	AR	<u>21</u>	Press Relea (April 6, 199		arkervision, I	Inc. Ar	inounces Fiscal 1993 Re	sults," Lip	pert/Heil	shorn and As	sociates, 2 Pages
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.1380000

FIRST NAMED INVENTOR
Gregory S. Rawlins

FILING DATE

APPLICATION NO.

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INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE	
	AA22	5,251,218	10/1	993	Stone	e et al.		-			
	AB22	5,251,232	10/1	993	Nona	ımi					
	AC22	5,260,970	11/1	993	Henr	y et al.					
	AD22	5,263,194	11/1	993	Raga	ın					
-	AE22	5,263,196	11/1	993	Jasp	er					
	AF22	5,267,023	11/1	993	Kawa	asaki	4				
	AG22	5,278,826	01/1	994	Murp	hy et al.					
	AH22	5,282,023	01/1	994	Scar	pa					
	Al22	5,287,516	02/1	994	Scha	ub					
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EXAMINER INITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	(CLASS	SUB- CLASS	TRANSLATION	
	AJ22	JP 5-327356		12/1993		JP				No	
	AK22	EP 0 643 477 A2	& A3	03/1995		EP				N/A	
	AL22	EP 0 877 476 A		11/1998	-	EP				N/A	
· ·	AM22	EP 0 977 351 A		02/2000		EP				N/A	
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	AN	22 Press Rele Sales Mar	ease, "Pa ager," Li	arkervision, I ppert/Heilsh	Inc. An orn and	nounces the Appointme d Associates, 1 Page (A	ent of Mich April 7, 199	ael Bake 4).	r to the New I	Position of Nationa	
	AO 			arkervision's es (April 8, 1		raman Well-Received B	y Distance	e Learnin	g Market," Li _l	ppert/Heilshorn and	
	AP			arkervision, l es (April 26,		nounces First Quarter F	inancial R	esults," l	ippert/Heilsh	orn and	
	AQ	Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).									
	AR	Press Rele Lippert/He	ease, "Pa Ishorn a	arkervision, I nd Associate	Inc. An es, 3 P	nounces New Cameran ages (June 9, 1994).	nan Syster	n II™ At	Infocomm Tra	ade Show,"	
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA23	5,293,398	03/1	994	Hamao et al.				
	AB23	5,303,417	04/1	994	Laws				
	AC23	5,307,517	04/1	994	Rich				
	AD23	5,315,583	05/1	994	Murphy et al.				
	AE23	5,321,852	06/1	994	Seong				
·-	AF23	5,325,204	06/1	994	Scarpa				
-47	AG23	5,337,014	08/1		Najle et al.		<u> </u>		
	AH23	5,339,054	08/1	-	Taguchi			1	
	Al23	5,339,459	08/1		Schiltz et al.				
	71120	10,000,100	100		N PATENT DOCUMENT	s	!		
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	AJ23	WO 00/31659 A	.1	06/2000	PCT	. ,		02.00	N/
	AK23	JP 9-36664		02/1997	JP			÷	N
	AL23	DE 196 48 915	A 1 .	06/1998	DE				Ye (Doc. AO59
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. # 1	AN	Associate Press Rei	s, 2 Page	es (June 17,	Inc. Announces Appointn 1994). Inc. Announces Second es, 3 Pages (August 9, 1	Quarter and			
	AP	23 Press Rel Lippert/He	ease, "Pa eilshorn a	arkervision, I and Associate	inc. Announces Third Ques, 3 Pages (October 28	arter and N , 1994).	ine Months F	inancial Resu	ults,"
	AQ	23 Press Rel Lippert/He	ease, "Pa eilshorn a	arkervision, I and Associate	Inc. Announces First Sig es, 2 Pages (November	nificant Dea 7, 1994).	ler Sale of Its	Cameramar	o® System II,"
	AR			arkervision, I es (March 1,	inc. Announces Fourth C 1995).	Quarter and '	Year End Res	sults," Lipper	t/Heilshorn and
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ATTY. DOCKET NO.
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FIRST NAMED INVENTOR
Gregory S. Rawlins

APPLICATION NO.
10/719,058

INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP November 24, 2003 To Be Assigned **U.S. PATENT DOCUMENTS** EXAMINER CLASS SUB-INITIAL DOCUMENT DATE NAME FILING DATE NUMBER **CLASS** AA24 5,355,114 10/1994 Sutterlin et al. AB24 5,361,408 11/1994 Watanabe et al. AC24 5,369,800 11/1994 Takagi et al. AD24 5,375,146 12/1994 Chalmers AE24 5,379,040 01/1995 Mizomoto et al. 01/1995 Thompson et al. AF24 5,379,141 AG24 Takatori et al. 5,388,063 02/1995 AH24 02/1995 Webster et al. 5,390,364 Scarpa AI24 03/1995 5,400,084 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-**TRANSLATION** CLASS ΑJ Yes No Yes ΑK No Yes ΑL No Yes AΜ No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and AN <u>24</u> Associates, 2 Pages (March 21, 1995). Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and AO <u>24</u> Associates, 3 Pages (April 28, 1995). Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and AΡ <u>24</u> Manufacturing Headquarters, 1 Page (June 29, 1995). Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and AQ <u>24</u> Manufacturing Headquarters, 1 Page (July 6, 1995).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1

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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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~-	AA25	5,404		04/19	995	Lee e	et al			CLASS	
	AB25	5,410		04/19		Hotto					
	AC25	5,410		04/19		 	, et al				
	AD25		2,352	05/19		Grah					
	AE25	5,416	***************************************	05/19		Jane					
	AF25		2,913	06/19		Wilki				·	
	AG25	_	3,082	06/19		† 	n et al.				
	AH25		8,638	06/19			et al.	<u> </u>	.		
	A1125		8,640	06/19		Town					
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	AN	<u>25</u>	Press Releas Marketing ar	se, "Pa d Man	arkervision, I ufacturing H	nc. An leadqu	nounces Second Quarte arters, 2 Pages (July 31	er and Six , 1995).	Months F	Financial Res	ults," Parkervision
	AO	<u>25</u>	Press Releas and Manufac	se, "Pa turing	arkervision, I Headquarte	nc. Ex rs, 2 P	pands Its Cameraman S ages (September 22, 19	ystem II F 95).	Product L	ine," Parkerv	sion Marketing
	AP,	<u>25</u>	Press Releas Manufacturir	se, "Pa ig Hea	arkervision A dquarters, 2	nnoun Pages	ces New Camera Contro s (October 25, 1995).	ol Techno	logy," Pa	rkervision Ma	rketing and
	AQ	<u>25</u>	Press Relea Parkervision	se, "Pa Marke	arkervision, I eting and Ma	nc. An nufact	nounces Completion of vuring Headquarters, 2 Pa	VTEL/Par ages (Oct	kervision ober 30,	Joint Produc 1995).	t Line,"
	AR .	<u>25</u>	Press Relea Marketing ar	se, "Pa	arkervision, I aufacturing H	nc. An leadqu	nounces Third Quarter a arters, 2 Pages (Octobe	and Nine I er 30, 199	Months F 5).	inancial Resu	ılts," Parkervision
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
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FIRST NAMED INVENTOR
Gregory S. Rawlins
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APPLICATION NO.
10/719,058
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	AA26	5,43	4,546	07/19	995	Palm	er				
	AB26	5,43	8,692	08/19	995	Mohi	ndra				
	AC26	5,44	4,415	08/19	995	Dent	et al.				
-	AD26	5,44	4,416	08/19	995	Ishik	awa et al.				
	AE26	5,44	4,865	08/19	995	Heck	et al.				
	AF26	5,44	6,421	08/19	995	Kech	kaylo				
	AG26	5,44	6,422	08/19	995	Matti	la et al.				
	AH26	5,44	8,602	09/19	995	Ohm	ori et al.				
	Al26	5,45	1,899	09/19	995	Lawt	on				
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<u> </u>	AN	<u>26</u>	Press Releas Parkervision	se, "Pa Marke	rkervision's iting and Ma	Came nufacti	raman Personal Locator C uring Headquarters, 2 Pag	camera Systo ges (Novemb	em Wi er 1, 1	ins Telecon 1995).	XV Award,"
	AO	<u>26</u>	Press Releas Marketing an	se, "Pa Id Man	arkervision, I sufacturing H	nc. An leadqu	nounces Purchase Comm arters, 1 Page (February 2	itment From 26, 1996).	VTEL	. Corporation	n," Parkervision
	AP	<u>26</u>	Press Releas	se, "Pa turing	arkerVision, Headquarte	Inc. Ar rs, 2 P	nounces Fourth Quarter a ages (February 27, 1996).	and Year End	d Resu	ults," Parker	vision Marketing
	AQ	<u>26</u>	Press Releas Headquarter				pands its Product Line," F 6).	arkervision	Marke	ting and Ma	nufacturing
	AR	<u>26</u>	Press Release	se, "Pa	arkerVision F Headquarte	Files Pars, 1 P	atents for its Research of age (March 28, 1996).	Wireless Ted	chnolo	gy," Parken	vision Marketing
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conformance and not considered. Include copy of this form with next communication to Applicant.

U.S. PATENT DOCUMENTS

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA27	5,45	4,007	09/19	995	Dutta	3				
	AB27	5,45	4,009	09/19	995	Fruit	et al.				
	AC27	1	3,356	10/19		Palm	·				
	AD27		3,357	10/19		Hob					
	AE27	+	5,071	11/19		1	ayashi <i>et al</i> .			+	
	AF27 AG27		5,410 5,415	11/19		Bien	n et al.	-		•	
	AH27	+	1,162	11/19		McE	200				
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	AN	<u>27</u>	Press Releas Parkervision	se, "Pa Marke	rkervision, I ting and Ma	nc. An nufact	nounces First Significant S uring Headquarters, 2 page	Sale of Its Can es (April 12, 1	neraman® Thre 996).	e-Chip System,"	
	AO	<u>27</u>	Press Releas Marketing ar	se, "Pa Id Man	rkervision, I ufacturing H	nc. Int leadqu	roduces New Product Line parters, 2 Pages (April 15, 1	For Studio Pi 1996).	oduction Marke	et," Parkervision	
	AP	<u>27</u>					nounces Private Placemer age (April 15, 1996).	nt of 800,000 \$	Shares," Parker	vision Marketing	
	AQ	<u>27</u>			arkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and adquarters, 3 Pages (April 30, 1996).						
	AR 27 Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).										
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FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA28	5,47	9,447	12/19	995	Cho	w et al.						
	AB28	5,48	33,193	01/19	996	Keni	nedy et al.						
	AC28	5,48	33,549	01/19	996	Wei	nberg et al.	_			<u> </u>		
	AD28		33,691	01/19			k et al.	_		<u> </u>			
	AE28	1	0,173	02/19		-	kehart et al.				<u> </u>		
	AF28	1	93,581	02/19			ng et al.						
	AG28 AH28	_	93,721 95,200	02/19		Reis	n <i>et al</i> .			<u> </u>			
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	AIZO	1 3,43	75,202	10271			ENT DOCUMENTS				1		
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	AN	<u>28</u>	Press Relea Marketing ar	se, "Pa nd Man	arkervision, Ir aufacturing H	nc. Ar eadqı	nnounces Second Quarter an uarters, 3 Pages (August 1,	nd Six M 1996).	onths F	inancial Res	ults," Parkervision		
	AO	<u>28</u>	Press Relea Marketing ar	se, "Pa id Man	arkervision, Ir aufacturing H	n, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision g Headquarters, 2 Pages (October 29, 1996).							
	AP	<u>28</u>				el and ParkerVision Sign Reseller Agreement," Parkervision Marketing and ers, 2 Pages (October 30, 1996).					ng and		
	AQ	<u>28</u>	Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).										
	AR	<u>28</u>		ease, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing facturing Headquarters, 3 Pages (February 27, 1997).									
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FIRST NAMED INVENTOR
Gregory S. Rawlins

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	AA29	+	5,500	02/19	996	Jova	novich <i>et al.</i>		<u> </u>	102.00	-	
	AB29	_	9,267	03/19		Ohe	· · · · · · · · · · · · · · · · · · ·					
	AC29	+	0,758	03/19		Thon	npson et al.		Ì	1		
	AD29		7,688	05/19			n et al.	•				
	AE29		9,890	05/19	-	Pincl	*					
	AF29		3,719	06/19		Longo et al.						
	AG29	<u> </u>	3,726	06/19		 	ger <i>et al</i> .			†		
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	AN	<u>29</u>	Press Releas Manufacturin	se, "Pa g Hea	arkervision, I dquarters, 3	nc. An Pages	nounces First Quarter Fi (April 29, 1997).	nancia	al Results," F	Parkervision N	Marketing and	
	AO	<u>29</u>	Press Releas 1997).	se, "N£	EC and Park	ervisio	n Make Distance Learnir	ng Clo	ser," NEC A	merica, 2 Pa	ges (June 18,	
	AP	Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).										
	AQ 29 Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).										," Parkervision	
AR 29 Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).											sults," Parkervision	
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FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA30	5,55	5,453	09/19	996	Kajin	noto <i>et al.</i>							
	AB30	5,55	7,641	09/19	996	Weir	berg							
	AC30	5,55	7,642	09/19	996	Willia	ims							
	AD30	5,57	9,341	11/19	996	Smitl	n et al.							
	AE30	5,57	9,347	11/19	996	Lindo	quist <i>et al</i> .							
	AF30	5,58	4,068	12/19	996	Mohi	ndra							
	AG30	5,59	2,131	01/19	97	Labre	eche et al.							
	AH30	i i	2,847	02/19	997	Paga	no et al.							
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	AN	30	Press Relead and Manufac	se, "Pa turing	irkervision, I Headquarte	nc. An	nounces Private Placem ages (September 8, 199	nent of 9	990,000 Sha	ares," Parken	vision Marketing			
	AO	<u>30</u>				ooses Parkervision for Broadcast Production," Parkervision Marketing and 2 Pages (October 24, 1997).								
	AP 30 Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).													
Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequence Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).										ency Techno	ency Technology," Parkervisio			
	AR	30	Press Releas President, Li Pages (Janu	censin	g - Wireless	Inc. An Techr	nounces the Appointme nologies," Parkervision N	nt of Jo Marketir	seph F. Sko	ovron to the Furnaturing He	Position of Vice adquarters, 2			
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FILING DATE GROUP
November 24, 2003 GROUP
To Be Assigned

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EXAMINER INITIAL	DOCUMENT DATE NUMBER AA31 5,604,732 02/19			E	NAM	E	CLAS		SUB- CLASS	FILING DATE		
	AA31	5,604	1,732	02/19	997	Kim	et al.					
-	AB31	5,608	3,531	03/19	997	Hono	la et al.					
	AC31	5,610	0,946	03/19	997	Tana	ka et al.					
	AD31	RE 3	5,494	04/19	997	Nicol	lini					
	AE31	5,617	7,451	04/19	997	Mimı	ıra et al.			_		
	AF31	5,619	9,538	04/19	997	Sem	pel et al.					
	AG31	5,62	1,455	04/19	997	Roge	ers et al.					
	AH31	5,630	0,227	05/19	997	Bella	et al.			<u>-</u> -		
	AI31	5,640	0,415	06/19	997	Pano	ula					
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EXAMINER INITIAL		DOC	UMENT NUM	BER	DATE	·	COUNTRY			SUB- CLASS	TRANSLATION	
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	AN 31 Press Release, "Parkervision Announces Existing Agreement with IBM Terminates Co Strategic Focus Announced in December," Parkervision Marketing and Manufacturing H (January 27, 1998).										uarters, 2 Pages	
·	AO	<u>31</u>	Press Releas Manufacturin	se, "La ig Hea	boratory Tes dquarters, 2	sts Vei Pages	rify Parkervision Wireles (March 3, 1998).	ss Technology,	" Parke	rvision Ma	rketing and	
	AP Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).									s," Parkervision		
AQ 31 Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Market Manufacturing Headquarters, 2 Pages (April 15, 1998).									sion Marke	n Marketing and		
	AR	<u>31</u>	Press Relea	se, "Pa ng Hea	arkervision A dquarters, 3	nnoun Page:	ces First Quarter Finan s (May 4, 1998).	cial Results," F	Parkervi	sion Marke	eting and	
EXAMINER		<u> </u>	I					DATE	CONSI	DERED		

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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		+	MBER			ļ				CLASS				
	AA32	_	0,424	06/19		Bana	vong et al.							
	AB32	5,64	0,428	06/19	·	Abe e	t al.				<u>.</u>			
	AC32	5,64	0,698	06/19	97	Shen	et al.				_			
	AD32	5,64	8,985	07/19	997	Bjere	de <i>et al.</i>							
	AE32	5,65	0,785	07/19	997	Roda								
	AF32	5,66	1,424	08/19	97	Tang	mittee' s - s -							
	AG32	5,66	3,878	09/19	97	Walk	er							
	AH32	5,66	3,986	09/19	97	Striffl	er							
	Al32	5,66	8,836	09/19	97	Smith	et al.							
	_				FOREIGN	N PATE	NT DOCUMENTS	•						
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	AN	<u>32</u>	Brace Delegas "Dedicardision 'DIDECT2DATA' Introduced in Response to Market Demand " Parkendision											
	AO	<u>32</u>	Press Releas Headquarter	Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).										
	AP	<u>32</u>	Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).											
	AQ	<u>32</u>	Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).											
	AR	<u>32</u>	Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).											
EXAMINER		<u>. </u>	.					٥	ATE CON	SIDERED				

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA33	5,680	0,078	10/19	97	Ariie					
	AB33	5,680	0,418	10/19	97	Crof	t et al.				
	AC33	5,68	9,413	11/19	97	Jara	millo <i>et al</i> .	_			
	AD33	5,69	9,006	12/19	97	Zele	et al.	_			
	AE33		5,955	01/19	998	Free	burg et al.				
	AF33	5,710	0,998	01/19	98	Opa	S				
	AG33	+	4,910	02/19			zen et al.	_		+	ļ
	AH33	1	5,281	02/19		Bly 6				1	
	Al33	5,72	1,514	02/19			kett et al.				
					FOREIGN	I PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY	1	CLASS	SUB- CLASS	TRANSLATION
	AJ										Yes No
	AK										Yes No
	AL								_	Yes No	
	AM										Yes No
	AO AP	and Manufac	arkervision								
	AQ	<u>33</u>	"Project COS Vol. LIV, No.	ST 205 3, pp.	: Scintillatior 209-211 (M	ns in E ay-Ju	arth-satellite links," <i>Alta Fr</i> ne, 1985).	equen	za: Scient	ific Review in	Electronics, AEI,
	AR	Razavi, B., <i>RF Microelectronics</i> , Prentice-Hall, pp. 147-149 (1998).									
EXAMINER								D,	ATE CON	SIDERED	<u> </u>

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ATTY. DOCKET NO.

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FIRST NAMED INVENTOR
Gregory S. Rawlins

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APPLICATION NO.

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	AA34	+	4,002	03/19	208	Hulio	·b		_	CLASS	<u> </u>	
	AB34	+	4,653	03/19		+	er et al.		-	+		
	AC34		9,577	03/19		Cher					-	
	AD34		9,829	03/19		+	ar et al.					
	AE34	_	2,333	03/19		Cox				 		
	AF34		6,895	04/19		Yu e				 		
	AG34		7,035	04/19		Rotz			1			
	AH34	†	7,033 2,189	04/19		+	nida et al.				1	
	Al34			05/19			h e <i>t al</i> .		<u> </u>			
	[Al34	3,74	8,683	105/18						<u></u>		
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EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE	COUNTRY			CLASS	SUB- CLASS	TRANSLATION	
	AJ										Yes No	
	AK										Yes No	
	AL										Yes No	
	АМ										Yes No	
			ОТН	ER (In	cluding Au	thor, T	itle, Date, Pertinent Pa	ages, e	etc.)			
· :	AN ·	<u>34</u>	Reeves, R.J. Brothers Lim	D., "TI ited, V	ne Recordin ol. 31, No. 3	g and (373, pp	Collocation of Waveforr . 130-137 (March 1959	ns (Pa).	rt 1)," Electro	nic Engineer	ing, Morgan	
	AO	<u>34</u>	Reeves, R.J. Brothers Lim	D., "Ti ited, V	ne Recordin ol. 31, No. 3	g and (374, pp	Collocation of Waveforr 204-212 (April 1959).	ns (Pa	rt 2)," <i>Electro</i>	nic Engineer	ing, Morgan	
	AP	<u>34</u>	Rein, H.M. a Transistors,"	nd Zah <i>Electr</i>	nn, M., "Sub onics Letter	nanose rs, IEE,	econd-Pulse Generator Vol. 11, No. 1, pp. 21-2	with Va 23 (Jar	ariable Pulse nuary 9, 1975	width Using /).	Avalanche	
	AQ	<u>34</u>	Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," IEEE MTT-S International Microwave Symposium Digest, IEEE, pp. 267-269 (June 27-29, 1978).									
	AR	<u>34</u>					ise Analysis of MESFE EEE, Vol. 37, No. 9, pp.				sactions on	
EXAMINER	1	<u> </u>	<u> </u>		.				DATE CON	SIDERED	· · · · · · · · · · · · · · · · · · ·	

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA35	+	35,829	06/19	998	San	derford, Jr.					
	AB35	5,76	30,645	06/19	998	Con	nte et al.					
	AC35	5,76	64,087	06/19	998	Clar	k					
	AD35	5,76	67,726	06/19	998	War	ng					
	AE35	5,76	8,118	06/19	998	Fau	lk et al.					
	AF35	5,77	71,442	06/19	998	War	ng et al.					
	AG35	5,77	77,692	07/19	998	Gho	sh					
	AH35	5,77	77,771	07/19	998	Smi	th					
	Al35	5,78	36,844	07/19	998	Rog	ers et al.		_			
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EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE	DATE COUNTRY				SUB- CLASS	TRANSLATION	
	AJ		*-					- -			Yes No	
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	AN	<u>35</u>	Rowe, H.E., Jersey, inclu	Signal ding, fo	s <i>and Noise</i> or example, (<i>in Co</i> Chapt	mmunication Systems, D. Valer V, Pulse Modulation Syst	an Nostra ems (196	and Com 65).	pany, Inc.,	Princeton, New	
	AO	<u>35</u>	Rücker, F. ar Dependence	nd Dint " <i>Elec</i>	telmann, F., ' tronics Lette	"Effec rs, IE	ct of Antenna Size on OTS S E, Vol. 19, No. 24, pp. 1032	ignal Sci -1034 (N	intillation ovember	s and Their 24, 1983).	Seasonal .	
	AP	<u>35</u>	Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference Proceedings</i> , Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).									
	Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," <i>The Institution of Engineers Australia Communications Conference</i> , Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990).											
	AR	<u>35</u>	Salous, S., "I I, IEE, Vol. 13				MCW waveforms for wideba June 1992).	nd chan	nel chara	acterization,	" IEE Proceedings	
EXAMINER			<u> </u>					DATE	E CONS	DERED		

ATTY. DOCKET NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA36	5,79	3,801	08/19	998	Fertr	ner				
	AB36	5,79	3,818	08/19	998	Clay	don <i>et al.</i>				
	AC36	5,80	2,463	09/19	998	Zuck	erman				
·	AD36	5,809	9,060	09/19	998	Cafa	rella et al.				
	AE36	5,818	8,582	10/19	998	Fern	andez et al.				
	AF36	1	5,254	10/19	998	Lee					
	AG36		4,985	11/19	998	1	legård				
	AH36	1	4,754	01/19		Hotte					
	Al36	1	1,375	03/19		Bono			<u> </u>		
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	AJ					_					Yes No
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	AL										Yes No
	AM									Yes No	
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	AN .	<u>36</u>	"Sampling Lo	ops L	ock Sources	s to 23	Ghz," <i>Microwaves & RF</i>	-, Pento	n Publishing	g, p. 212 (Se _l	otember 1990).
	AO	<u>36</u>	Sasikumar, N Vol. 71, No. 8	1. et ai 3, pp. 1	/., "Active Co 1008-1009 (ompen Augus	sation in the Switched-C t 1983).	Capacito	or Biquad," <i>I</i>	Proceedings of	of the IEEE, IEEE,
	АР	AP Saul, P.H., "A GaAs MESFET Sample and Hold Switch," Fifth European Solid State Circuits Conference-ESSCIRC 79, IEE, pp. 5-7 (1979).									
	AQ 36 Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," IEEE Journal of Solid-State Circuits, IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).										ournal of Solid- 1996).
	AR Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," <i>Radio Science</i> , American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995)										s of a multilink er-October 1995).
EXAMINER		<u>,</u>				DATE CONSIDERED					

ATTY. DOCKET NO.

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FIRST NAMED INVENTOR
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APPLICATION NO.

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	AA37	5,89	2,380	04/19	999	Quis	t					
	AB37	5,89	94,239	04/19	999	Bona	ccio et al.		<u> </u>			
_	AC37	5,89	96,562	04/19	999	Hein	onen					
	AD37	5,90	00,747	05/19	999	Brau	ns					
	AE37	5,90	1,054	05/19	999	Leu	et al.				1_	
	AF37	5,90	1,187	05/19	999	linun	na					
	AG37	5,90)1,344	05/19	999	Opas	3					
	AH37	5,90)1,347	05/19	999	Char	nbers et al.					
	Al37)1,348	05/1999		Bang	et al.					
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	AK										Yes No	
	AL		<u> </u>							Yes No		
	AM										Yes	
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	AN /	<u>37</u>	Shen, X. and Mechanisms	Tawfi ," <i>Elec</i>	k, A.N., "Dy tronics Lette	namic ers, IEB	Behaviour of Radio Cha E, Vol. 29, No. 17, pp. 15	nnels [582-158	Oue to Trans 33 (August 1	-Horizon Pro 9, 1993).	pagation	
	AO	<u>37</u> ·	of the parabo	lic Eq	uation and F	hanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid Ray Tracing Methods," <i>IEE Colloquium on Common modeling techniques for oustic wave propagation</i> , IEE, pp. 4/1-4/7 (March 8, 1996).						
	АР	<u>37</u>	Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea p <i>Electronics Letters</i> , IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).									
	AQ	<u>37</u>	Shen, D. et a	al., "A 9 ference	900 MHZ Int e, IEEE, Vol	ntegrated Discrete-Time Filtering RF Front-End," <i>IEEE International Solid State</i> ol. 39, pp. 54-55 and 417 (February 1996).						
Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, (April 4-7, 1989).										gical Conditions," EE, pp. 451-455		
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA38	5,90	1,349	05/19	999	Gue	gnaud <i>et al</i> .					
	AB38	5,90	3,178	05/19	999	Miya	atsuji et al.					
	AC38	5,90	3,187	05/19	999	Clav	verie et al.					
	AD38	5,90	3,196	05/19	999	Salv	ri et al.			ļ		
	AE38	5,90	3,421	05/19	999	Furt	ıtani <i>et al.</i>					
 	AF38		3,553	05/19		1	amoto et al.			-	- 	
	AG38		3,595	05/19		Suz				-	 	
	AH38		3,609	05/19			l et al.					
	AI38	5,90	3,827	05/19			nan et al.			<u></u>		
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	AN	<u>38</u>	Stafford, K.R Vol. SC-9, No				nolithic Sample/Hold Amp mber 1974).	lifier," <i>I</i>	EEE Journ	al of Solid-St	ate Circuits, IEEE,	
	AO	<u>38</u>	Staruk, W. Ji 211, 213, 21	r. et al 5, 217	., "Pushing H , 220 and 22	IF Da 2 (Ma	ta Rates," <i>Defense Electro</i> y 1985).	onics, E	W Commu	unications, Vo	ol. 17, No. 5, pp.	
AP Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," <i>Electronics</i> , McGraw pp. 106-110 (March 27, 1972).									onics, McGraw-Hill,			
	AQ	<u>38</u>	Sugarman, R American Ins	R., "Sai stitute (mpling Oscill of Physics, V	scilloscope for Statistically Varying Pulses," <i>The Review of Scientific Instruments</i> , es, Vol. 28, No. 11, pp. 933-938 (November 1957).						
	AR	<u>38</u>				probing of multipath microwave channels," <i>Radio Science</i> , American Geophysical 60-178 (March-April 1989).				an Geophysical		
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA39	5,90	3,854	05/19	999	Abe	et al.						
	AB39	5,90	5,449	05/19	999	Tsub	ouchi <i>et al</i> .						
	AC39	5,90	7,149	05/19	999	Marc	kini				<u> </u>		
	AD39	5,90	7,197	05/19	999	Faul	(
	AE39	5,91	1,116	06/19	999	Noss	witz						
	AF39	5,91	1,123	06/19	999	Shaf	fer et al.						
	AG39		4,622	06/19		Inou		~~~~					
	AH39	5,92	0,199			Saue	er						
	Al39	5,94	3,370	08/19	999	Smit	<u> </u>						
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	AK										Yes No		
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	AM.	-									Yes		
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	AN	<u>39</u>		•			itle, Date, Pertinent Pa			T-S Digest, IE	EEE, pp. 381-383		
	AO	<u>39</u>	Tan, M.A., "i Systems-1: 275 (April 19	Fundar	ratic Transc mental Theo	onduct ry and	ance Switched-Capacit <i>Applications</i> , IEEE Circ	or Filters cuits and	s," IEEE TI Systems	ransactions or Society, Vol. 4	n Circuits and 10, No. 4, pp. 272-		
	АР	<u>39</u>	Tanaka, K. e Electronics,	anaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," IEEE Transactions on Consumer lectronics, IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).									
	AQ 39 Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the S Electronics Letters, IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).												
	AR	<u>39</u>	Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).										
EXAMINER			<u> </u>					ľ	DATE CO	NSIDERED			

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA40	4,01	7,798	04/19	977	Gord	y et al.				
	AB40	4,03	2,847	06/19	977	Unka	uf				
	AC40	4,25	3,067	02/19	981	Capl	es et al.				
	AD40	4,39	3,395	07/19	983	Hack	e et al.				
	AE40	4,81	6,704	03/19	989	Fiori,	Jr.	•			
	AF40		1,265	06/19	989	Wata	inabe et al.				
	AG40	+	3,974	07/19		Mota	medi				
	AH40	+	5,409	05/19		Step					
	Al40		3,306	10/19		1	amoto		+		
	A140	1 0,33	3,300	10/18	-		ENT DOCUMENTS		<u> </u>	_i	
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	AJ										Yes No
	AK										Yes
	AL										Yes
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	AN	<u>40</u>	Tawfik, A.N. International 4-7, 1989).	and Vi Confe	lar, E., "Dyn rence on An	amic S tennas	structure of a Transl and Propagation (I	horizon Sig ICAP 89) P	nal at X-ban art 2: Propas	d Over a Sea gation, IEE, p	Path," <i>Sixth</i> p. 446-450 (April
	AO	<u>40</u>					of Duration and Inte 5, No. 7, pp. 474-47			Microwave Tr	anshorizon Sea-
	AP	<u>40</u>	Path Loss, D	uration	of Events.	and Th	anshorizon Measuro eir Modeling," <i>IEEE</i> ol. 41, No. 11, pp. 1	E Transacti	ons on Antei	nnas and Pro	he Sea- Part 1: pagation, IEEE
	AQ	<u>40</u> .	Temes, G.C. IEEE, Vol. 7				ecial Section on Sv gust 1983).	vitched-Ca _l	pacitor Circu	its," <i>Proceedi</i>	ings of the IEEE,
	AR	<u>40</u>	Thomas, G.E	3., Calc	culus and Ar	nalytic	Geometry, Third Ed	ition, Addis	on-Wesley I	Publishing, pr	o. 119-133 (1960).
EXAMINER			<u> </u>						DATE CON	SIDERED	
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ATTY. DOCKET NO.

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FIRST NAMED INVENTOR
Gregory S. Rawlins

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APPLICATION NO.

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	AA41	5,51	5,014	05/19	996	Trou	tman				
	AB41	5,56	3,550	10/19	996	Toth					
	AC41	5,57	4,755	11/19	996	Pers	ico				
	AD41	5,60	4,592	02/19	997	Kotic	is et al.				
	AE41	5,63	8,396	06/19	997	Klime	ek				
	AF41	5,67	5,392	10/19	997	Naye	ebi <i>et al</i> .				
	AG41	5,69	4,096	12/19	997	Ushi	roku <i>et al.</i>				
	AH41	5,75	7,870	05/19	998	Miya	et al.				
	Al41	5,76	8,323	06/19	998	Kroe	ger et al.				
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EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ										Yes No
	AK										Yes No
	AL										Yes No
•	AM										Yes No
			отн	ER (In	cluding Autl	hor, T	itle, Date, Pertinent Pa	ges, etc.)			
	AN	<u>41</u>	Tomassetti, (and Publishe	Q., "Ar rs, pp.	n Unusual Mi 754-759 (Se	crowa eptem	ve Mixer," <i>16th European</i> ber 8-12, 1986).	Microwave	Confere	ence, Microv	wave Exhibitions
	AO	<u>41</u>	Transactions	on Ul	trasonics, Fe	rroele	r Signal Analysis Based ctrics, and Frequency C o. 1, pp. 1-3 (January 19	ontrol, IEEE	RF Sam Ultraso	npling Chani nics, Ferroe	nel," <i>IEEE</i> electrics, and
	AP	<u>41</u>	Tsividis, Y. a (1985).	nd Ant	tognetti, P. (E	Ēd.), <i>□</i>	Design of MOS VLSI Circ	uits for Tel	ecommui	nications, Pi	rentice-Hall, p. 304
	AQ	41	Tsividis, Y., 'IEEE, Vol. 7				and Analysis of Switched gust 1983).	-Capacitor	Circuits,	' Proceeding	gs of the IEEE,
	AR	41	and 2.6 Ghz	Band I	Radio Comm	unica	Study on a Direct Convertion Systems," <i>41st IEEE</i> 7-462 (May 19-22, 1991)	Vehicular	ver Front Technolo	-End for 280 gy Confere) MHZ, 900 MHZ, nce, IEEE
EXAMINER	_ 		1					DAT	E CONS	IDERED	
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA42	5,77	70,985	06/19	998	Ushi	iroku <i>et al.</i>					
	AB42	5,77	78,022	07/19	998	Wall	ey					
	AC42		12,546	09/19	998		u et al.					
	AD42		18,869	10/19		1	et al.					
	AE42	1	14,449	12/19		+	no et al.					
	AF42 AG42		72,446	02/19			nford, Jr. et al. et al.		_			
	AH42		09,447 33,467	08/19			er ar. ier et al.		-			
	A142		52,895	09/19		 	Cune, Jr. <i>et al</i> .			-		
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•	AK									Yes No		
	AL		· .							Yes No		
	AM									Yes No		
		<u>. L</u>	OTH	FR (In	ncluding Author, Title, Date, Pertinent Pages, etc.)							
	AN	4 <u>2</u>	Valdmanis, J Electronic De	.A. et e	al., "Picosec " <i>IEDM Tecl</i>	ond a	nd Subpicosend Optoelectro <i>Digest</i> , IEEE, pp. 597-600 (l	onics for Meas December 5-7	urements of F , 1983).	uture High Speed		
	AO	<u>42</u>	van de Kamp Letters, IEE,	o, M.M. Vol. 3	.J.L., "Asymı 4, No. 11, pr	metric	signal level distribution due 5-1146 (May 28, 1998).	to tropospher	ic scintillation	," Electronics		
	AP	<u>42</u>	Vasseur, H. a	and Va .etters,	anhoenacker , IEE, Vol. 34	, D., " I, No.	Characterization of troposph 4, pp. 318-319 (February 19	eric turbulent , 1998).	layers from ra	adiosonde data,"		
	AQ .	<u>42</u>	Verdone, R., Environment pp. 1027-103	s," IEE	E Transaction	ons or	llysis for Short-Range Comm n Vehicular Technology, IEE	nunication Sys E Vehicular T	items at 60 Gl echnology Soc	nz in ATT Urban ciety, Vol. 46, No. 4,		
-	AR	<u>42</u>	Vierira-Ribei Sigma-Delta Services, pp	Modul	ator, Thesis	for De	Receiver Architecture using egree of Master's of Enginee	a Quadrature ring, Carletor	Sub-Samplin University, U	ng Band-Pass MI Dissertation		
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····	AA43	5,96	0,033	09/19	999	Shil	bano <i>et al.</i>				
	AB43	6,04	1,073	03/20	000	Dav	vidovici et al.				
	AC43	6,05	4,889	04/20	000	Kot	payashi				
	AD43	6,08	4,922	07/20	000	Zho	ou et al.				
	AE43	+	5,271	09/20			vland et al.				1
	AF43	_	7,340	11/20		Lev					-
	AG43	1	7,763	11/20			inlechner				-
	AH43	 	0,890	11/20			ngaard et al.				
	Al43	5,12	6,682	06/19		_	inberg et al.				
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EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ										Yes No
· e	AK										Yes No
	AL										Yes No
	AM										Yes No
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	AN	<u>43</u>	Vilar, E. et a. International 17, 1997).	I., "A C Confe	comprehensiv rence on Ant	/e/Se	elective MM-Wave Satellite as and Propagation, Electr	e Downlink onics Divis	Experim ion of the	ent on Fade EIEE, pp. 2.	Dynamics," <i>Tenth</i> 98-2.101 (April 14-
	AO	<u>43</u>	Vilar, E. et a Proceedings pp. 8-1 - 8-1	No. 34	46: Character	ristic	e LOS Atmospheric Trans s of the Lower Atmospher	mittance at e <i>Influencir</i>	19 Ghz, og Radio	" AGARD Co Wave Prope	onference agation, AGARD,
	АР	<u>43</u>	Vilar, E. and IEEE Transa	Smith, ections	, H., "A Theo on Antennas	retica and	al and Experimental Study I Propagation, IEEE, Vol. I	of Angular AP-34, No.	Scintilla 1, pp. 2-	tions in Eart 10 (January	h Space Paths," 1986).
	AQ	<u>43</u>	Vilar, E. et a Antennas an	I., "A V d Prop	Vide Band Transpagation, Elec	ansh ctron	norizon Experiment at 11.6 ics Division of the IEE, pp	Ghz," <i>Eigh</i> . 441-445 (nth Intern March 30	<i>ational Con</i>)- April 2, 19	ference on 193).
	AR	<u>43</u>	Vilar, E. and 8, No. 20, pp				tude Dependence of Frequ 972).	uency in Os	cillators,	" Electronic	s <i>Letter</i> s, IEE, Vol.
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

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FIRST NAMED INVENTOR
Gregory S. Rawlins

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APPLICATION NO.

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	AA44	5,84	1,811	11/19	998	Sor	ng				
	AB44	4,05	1,475	09/19	977	Car	npbell			<u> </u>	
	AC44	5,95	3,642	09/19		Feld	dtkeller et al.				
	AD44		3,117	03/19	987	Hec					ļ
	AE44		9,878	01/19		Phil	lips <i>et al.</i>				_
-	AF44		4,496	04/19		Jon					
	AG44		5,278	06/19		-	lick			_	.
	AH44		8,887	02/20		-	rison et al.				
	Al44	6,08	1,691	06/20			nard et al.				
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EXAMINER INITIAL		DOG	CUMENT NUM	IBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ			•							Yes No
	AK			<u> </u>							Yes No
	AL.								:		Yes
	AM										Yes No
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	AN	<u>44</u>	turbulence," Vilar, E. and	Burgu ade Dy	edings of the	25 th alysis	-wave receiver system for European Microwave Cor	ervals l	e, Nexus Ho	ouse, pp. 114	eedances in the
	АР	44	Vilar, E. et a Conference 1985).	I., "Ang on Ant	gle of Arrival ennas and P	Fluct	uations in High and Low Egation (ICAP 85), Electron	Elevatio	n Earth Spaision of the	ace Paths," <i>F</i> IEE, pp. 83-8	ourth International 88 (April 16-19,
	AQ	<u>44</u>	Vilar, E., "Ar on Teaching	ntennas Anten	s and Propag nas and Prop	jatior paga	n: A Telecommunications stion to Undergraduates, IE	System EE, pp.	s Subject, " 7/1-7/6 (Ma	Electronics Lirch 8, 1988).	Division Colloquiun
	AR	<u>44</u>	Vilar, E. et a Electronics I (April 10, 19	Divisio	RS*. Millimet n Colloquium	tre-W	ave Beacon Package and CERS- Communications E	d Relate Ingineer	ed Payload ring Resear	Doppler Corr ch Satellite, I	ection Strategies," EE, pp. 10/1-10/10
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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· ·	AA45	6,12	1,819	09/20	000	Tray	lor				
	AB45	6,14	4,236	11/20	000	Vice	et al.				
	AC45	6,14	4,846	11/20	000	Dure	С				
	AD45	6,17	5,728 B1	01/20	001	Mita	ma				
	AE45	5,70	5,949	01/19	998	Alely	runas <i>et al</i> .				
	AF45	5,88	3,548	03/19	999	Assa	ird et al.				
	AG45	4,48	4,143	11/19	984	Fren	ch <i>et al.</i>				
	AH45	5,84	1,324	11/19	998	Willia	ams				
	Al45	4,85	5,894	08/19	989	Asal	ni et al.				
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EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ										Yes No
	AK										Yes No
	AL										Yes No
	AM	 	<u> </u>								Yes No
							itle, Date, Pertinent P		<u> </u>	<u>.</u>	NO
	AN	<u>45</u>	Vilar, E. and Electronics L	Mouls etters	ley, T.J., "Co IEE, Vol. 2	ommei 1, No.	nt and Reply: Probabilit 14, pp. 620-622 (July 4	ty Densi 1, 1985)	ity Function o	of Amplitude 9	Scintillations,"
	AO	<u>45</u>	Vilar, E. et a. Letters, IEE,	I., "Cor Vol. 2	nparison of 8, No. 20, pp	Rainfa p. 192:	II Rate Duration Distrib 2-1924 (September 24,	utions f 1992).	or ILE-IFE ar	nd Barcelona	," Electronics
	AP	<u>45</u>	Vilar, E., "De No. 9, pp. 73	polariz 2-733	zation and F (April 25, 19	ield Tr 991).	ansmittances in Indoor	Commi	unications," <i>t</i>	Electronics Le	etters, IEE, Vol. 27,
	AQ	<u>45</u>	Vilar, E. and Paths," <i>Sixth</i> 150-154 (Ap	Intern	national Con	vation ferenc	Dependence of Amplitue on Antennas and Pro	ude Scir pagatio	ntillations on n (ICAP 89)	Low Elevatio Part 2: Propa	n Earth Space gation, IEE, pp.
	AR	<u>45</u>	Vilar, E. et a European M. 1988).	I., "Exp icrowa	perimental S ve Conferen	ystem ice, Mi	and Measurements of crowave Exhibitions an	Transho	orizon Signal shers Ltd., p	Levels at 11 b. 429-435 (S	Ghz," <i>18th</i> September 12 - 15,
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1380000	APPLICATION NO. 10/719,058
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	AA46	5,31	9,799	06/19	994	Mori	ta				
	AB46	5,80	1,654	09/19	998	Tray	lor				
	AC46	5,36	9,404	11/19	994	Galte	on				
	AD46	3,71	6,730	02/19	973	Cerr	y, Jr.				
	AE46	4,08	0,573	03/19	978	How	ell				
-	AF46	4,33	34,324	06/19	982	Hoo	/er			-	
	AG46	+	9,522	01/19	983	Cerr	y, Jr. <i>et al.</i>			<u> </u>	
	AH46	1	55,418	11/19		1	ı et al.			- 	
	Al46	5,51	3,389	04/19	-		ser et al.				
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EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ		•								Yes No
	AK										Yes No
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	AM										Yes No
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	AN	<u>46</u>	Vilar, E. and the 4 th Europ 1974).	Matthe ean M	ews, P.A., "Ir icrowave Co	mporta onferer	ance of Amplitude Scintilla ace, Microwave Exhibition	ations in Mi s and Publ	llimetricishers,	c Radio Links pp. 202-206	s," <i>Proceedings of</i> (September 10-13,
	AO	<u>46</u>	Parameters	n an E	arth-Space I	Path."	ent and Modeling of Scinti IEEE Transactions on An 4, pp. 340-346 (April 198	tennas and	nsity to	Estimate Tuagation, IEEE	rbulence Antennas and
	AP	<u>46</u>	Vilar, E. and Electronics L	Matthe .etters,	ews, P.A., "N IEE, Vol. 7,	/leasu No. 1	rement of Phase Fluctuati 8, pp. 566-568 (Septembe	ons on Mill er 9, 1971)	imetric	Radiowave	Propagation,"
	AQ	<u>46</u>	Vilar, E. and Millimetre Ba 5/1-5/8 (Jan	ind," É	lectronics Di	ow and	Wide Band Estimates of Colloquium on Radiocom	Field Streinmunication	ngth for as in the	Indoor Com e Range 30-6	munications in the 60 Ghz, IEE, pp.
	AR	<u>46</u>					Noise and Frequency State oquium on Low Noise Ose				
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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EXAMINER INITIAL			CUMENT IBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA47	5,95	9,850	09/19	999	Lim					
	AB47	5,15	7,687	10/19	992	Tym	es				
	AC47	5,94	5,660	08/19	999	Naka	asuji <i>et al.</i>		-		
	AD47	6,09	1,939	07/20	000	Bant	1				
	AE47	6,09	1,941	07/20	000	Mori	yama et al.				
***	AF47	6,09	8,886	08/2	000	Swift	et al.				
	AG47		5,475 B1	04/2	001	Meye	erson <i>et al</i> .				
	AH47	+	9,706	04/2	000	-	c et al.				
	Al47	_	1,551	05/2		+	ells et al.				
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	AK			-	7						Yes No
	AL										Yes No
	AM										Yes No
<u> </u>	<u> </u>		OTH	IFR (In	cludina Au	thor. T	itle, Date, Pertinent Pa	ages, etc	:.)		
	AN	<u>47</u>	Vilar, E. and IEE, Vol. 33	l Senin , No. 2:	, S., "Propaç 2, pp. 1901-	gation (phase noise identified u October 23, 1997).	sing 40 G	Shz satellite	e downlink," .	Electronics Letters,
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	AR	<u>47</u>					ary of Scintillation Obse s and Propagation Part				
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

FILING DATE GROUP

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	AA48	+	1,555	05/20	200	Bult	man <i>et al</i> .			CLASS			
	AB48		1,940	07/20		+	rells <i>et al</i> .						
	AC48	1 —	6,518 B1	07/20			rells et al.						
	AD48	1	3,735 B1	03/20		 	rells et al.						
	AE48		0,371 B1	04/20			rells et al.						
	AF48	1 -	8,055	05/19		Stei					1		
	AG48	_	8,220	10/19			rnier	<u> </u>					
	AH48		6,065	07/19			kai <i>et al.</i>						
	Al48	_	2,885	11/19		_	erdorf et al.	<u> </u>		· · · · · · · · · · · · · · · · · · ·			
	A140	3,02	.2,000	1 17 13			TENT DOCUMENTS						
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	AJ										Yes No		
	AK										Yes No		
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	AM	 									Yes		
		1			luding Author, Title, Date, Pertinent Pages, etc.)								
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2	AP	<u>48</u>	Voltage and (November 1		Resolution in	Digiti	izing Oscilloscopes: Applica	ation Note	348, He	wlett Packa	ard, pp. 1-11		
	AQ	<u>48</u>	Wan, K.W. e Oscillator," <i>P</i> Ltd., pp. 809	roceed	dings of the	19 th E	to the Simultaneous Meas furopean Microwave Confe 189).	urement o	f Phase rowave	and Amplite Exhibitions	ude Noises in and Publishers		
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

FILING DATE GROUP

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- 	AB49	6,42	1,534 B1	07/20	002	Cod	ok et al.			
	AC49	6,33	0,244 B1	12/20	001	Swa	artz et al.			
	AD49	4,38	4,357	05/19	983	deE	luda et al.		_	
	AE49	4,47	0,145	09/19		Wil	iams		<u> </u>	
	AF49	_	0,680	02/19			hima et al.			
	AG49		6,731	02/19		Pac	e et al.		_	
	AH49		0,670	02/19			ey et al.			
	Al49	6,31	4,279 B1	11/20	001	Moi	nindra			
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	AJ									Yes No
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	AL									Yes No
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	AO	<u>49</u>	Wang, H., "A Solid-State C	1-V M ircuits	lultigigahertz Society, Vol	RF 1. 33,	Mixer Core in 0.5 - μm CMO No. 12, pp. 2265-2267 (Dec	S," <i>IEEE Journa</i> ember 1998).	al of Solid-Sta	ate Circuits, IEEE
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FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA50	5,63	33,815	05/19	997	Your	9				
NUMBER											
	AC50	3,70	02,440	11/19	972	Moor	e				
	AD50	3,76	67,984	10/19	973	Shine	oda et al.				
	AE50	3,85	52,530	12/19	974	Sher					
	AF50	4,22	20,977	09/19	980	1					
· .	AG50			05/19	991	Tang			1		
	AH50			08/1999		_					
	AI50						la et al.				
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	AN	<u>50</u>	Worthman, V	V., "Co	onvergence	. Agair	n," <i>RF Design</i> , Primedia	a, p. 10	2 (March 199	99).	
	AO	<u>50</u>	Young, I.A. a IEEE Journa	nd Ho I of So	dges, D.A., " <i>lid-State Cir</i> d	'MOS : cuits, I	Switched-Capacitor Ana EEE, Vol. SC-14, No. 6	alog Sa , pp. 1	ampled-Data 020-1033 (D€	Direct-Form ecember 197	Recursive Filters,' 9).
	АР	<u>50</u>			ification and	l Claim	s of FR Patent No. 224	5130,	3 pages (Apri	il 18, 1975- C	ate of publication
	AQ	<u>50</u>	Fest, Jean-P 54, pp. 40-42	ierre, " ? (Dece	Le Convertis ember 1995)	sseur /	VN Revolutionne Le Re	eceptei	ır Radio," <i>Ele</i>	ectronique, JN	ИЈ (Publisher), No
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FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA51	6,07	3,001	06/20	000	Soko	ler						
	AB51	6,08	5,073	07/20	000	Pale	rmo <i>et al</i> .						
	AC51	6,40	0,963 B1	06/20	002	Glöc	kler <i>et al</i> .						
	AD51	6,23	0,000 B1	05/20	001	Tayloe							
	AE51	5,48	3,695	01/19	96	Pard	oen						
	AF51	6,54	2,722 B1	04/20	003	Sorre	ells <i>et al</i> .						
	AG51	6,56	0,301 B1	05/20	003	Cook	et al.						
	AH51 6,098,046 08/2000						oer et al.						
	AI51	5,56	4,097	10/19	996	Swai	nke			ļ			
					FOREIGN	PAT	ENT DOCUMENTS						
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	AQ -	<u>51</u>	Miki, S. and (April 30, 19		ama, R., <i>Mo</i> o	dulatio	on System II, Common E	dition 7, Ky	oritsu Pu	ıblishing Co	., Ltd., pp. 146-154		
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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA52	5,89	8,912	04/19	999	Heck	et al.					
	AB52	4,66	0,164	04/19	987	Leibo	owitz					
	AC52	6,58	0,902 B1	06/20	003	Sorre	ells et al.					
,	AD52	4,85	7,928	08/19	989	Gailu	is et al.					
	AE52	5,38	9,839	02/19	995	Heck						
	AF52	5,47	1,665	11/19	95	Pace	et al.					
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	AH52		1,154	05/19		Tsug						
	Al52	1	3,817	08/19	998	Wilso						
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FIRST NAMED INVENTOR Gregory S. Rawlins

FILING DATE GROUP

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_	AB53	6,31	13,685 B1	11/20	001	Rat					
	AC53	3,61	14,627	10/19	971	Rur	nyan et al.				
	AD53	3,94	40,697	02/19		Moi	rgan				
	AE53	_	16,366	04/19		Kur					
	AF53	4,04	45,740	08/19		Bak	(er	_			
	AG53		15,737	09/19		Hor	ngu <i>et al</i> .	_		-	
	AH53		10,992	01/19			vada et al.			-	
	AI53	5,79	90,587	08/19			ith <i>et al</i> .				
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	AJ									Yes	
	AK									No Yes	
	AL	-	-							No Yes	
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ATTY. DOCKET NO.
1744.1380000

FIRST NAMED INVENTOR
Gregory S. Rawlins

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	AC54	6,0	11,435	01/2	000	Take	yabu <i>et al</i> .				
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	AE54	6,02	26,286	02/2	000	Long					
	AF54	6,17	78,319 B1	01/2	001	Kash	ima				
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···	AI54	4,48	38,119	12/19	984	Mars	hall				
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Page 55 of 64

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ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AI55	6,06	7,329	05/2	000	Kate	o et al.				
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*	AA56	6,51	6,185 B1	02/20	003	Maci	Nally				
	AB56	6,60	8,647 B1	08/20	003	King					
	AC56	6,68	7,493 B1	02/20	004	4 Sorrells et al.					
	AD56	6,69	4,128 B1	02/20	004	Sorre	ells et al.				
	AE56	6,03	1,217	02/20	000	Aswe	ell et al.				
	AF56	5,95	5,992	09/19	999	Shat	til				
	AG56	5,99	9,561	12/19	999	Nade	en et al.				
	AH56 6,686,879 B2 02/2004					Shat	til				
							ells <i>et al</i> .				
					FOREIGN	PAT	ENT DOCUMENTS				
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		I	Pages (June	27, 19	988 - Date of	public	ation of application).				
	AO	<u>30</u>	application).								
	AP	<u>56</u>	Razavi, B., ". Digest of Te	A 900- chnicai	MHz/1.8-Ghz <i>Paper</i> s, IEE	z CMC E, pp.	OS Transmitter for Dual- 128-131 (1998).	Band A	pplications,"	Symposium	on VLSI Circuits
	AQ	<u>56</u>	Ritter, G.M., Exhibitions a	"SDA, ind Put	A New Solut olishers, pp.	tion fo 729-7:	r Transceivers," <i>16th Eu</i> 33 (September 8, 1986)	ıropear	n Microwave	Conference,	Microwave
	AR	<u>56</u>	DIALOG File Date of publi				ish Language Patent At	ostract	for FR 2 669	787, 1 page	(May 29, 1992-
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APPLICATION NO. ATTY. DOCKET NO. 10/719,058 1744.1380000 FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA57	6,70	4,558 B1	03/20	004	Sorre	ells et al.				
	AB57	5,49	0,176	02/19	996	Peltie	er			_	
	AC57	5,97	0,053	10/19	999	Schio	ck et al.				
	AD57	6,07	8,630	06/20	000	Pras	anna				
	AE57	6,60	0,911 B1	07/20	003	Moris	shige <i>et al</i> .			<u> </u>	
	AF57	5,17	9,731	01/19	93	Trän	kle <i>et al</i> .				
	AG57	5,58	9,793	12/19	996	Kass	apian				
	AH57	4,51	0,467	04/19	985	Char	ng et al.				
	AI57	4,77	2,853	09/19	988	Hart					
					FOREIGN	PAT	ENT DOCUMENTS				
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	AN	<u>57</u>	Akos, D.M. e Communicat	et al., "(ions, II	Direct Bandp EEE, Vol. 47	ass S , No. 7	ampling of Multiple Disti 7, pp. 983-988 (July 199	nct RF Si 9).	gnals," <i>IE</i>	EE Transacti	ons on
	AO	<u>57</u>	Patel, M. et Jitter," VTC	al., "Ba 2002, I	ndpass Sam EEE, pp. 190	ipling 1 01-190	for Software Radio Rece 05 (2002).	eivers, and	d the Effe	ct of Oversan	npling on Aperture
	AP	<u>57</u>	English-lang Pages (Febr	uage A uary 13	bstract of Ja 3, 1986- Date	panes e of pu	se Patent Publication No ublication of application)	o. 61-0308	21, from	http://www1.i	odl.jpo.go.jp, 2
	AQ	<u>57</u>	English-lang Pages (Dece	uage A ember	bstract of Ja	panes ate of	se Patent Publication No publication of applicatio	o. 05-3273 n).	56, from	http://www1.i _l	pdl.jpo.go.jp, 2
	AR	<u>57</u>	Tayloe, D., " Business Ma	A Low-	noise, High- es & Media, I	perfor	mance Zero IF Quadrat o. 58, 60, 62 and 69 (Ma	ure Detec Irch 2003	tor/Pream	nplifier," <i>RF D</i>	esign, Primedia
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058

FIRST NAMED INVENTOR Gregory S. Rawlins

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	AA58	4,97	2,436	11/19	990	Halin	n et al.				
	AB58	5,01	2,245	04/19	991	Scott	et al.				
	AC58	5,42	2,909	06/19	995	Love	et al.				
	AD58	5,44	0,311	08/19	995	Gallagher et al.					
	AE58	5,92	6,513	07/19	999	Suominen et al.					
	AF58	5,99	5,030	11/19	999	Cable	er				
·	AG58	6,04	7,026	04/20	000	Chac	et al.				
	AH58 6,049,573 04/2000 Al58 6,076,015 06/2000										
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	AN	<u>58</u>	Dines, J.A.B Journal of Se	., "Sma elected	art Pixel Opte Topics in Q	oelectr Quantur	onic Receiver Based or In Electronics, IEEE, Vo	n a Cha ol. 2, No	arge Sensitiv o. 1, pp. 117-	e Amplifier D 120 (April 19	esign," <i>IEEE</i> 96).
	AO	<u>58</u>	Simoni, A. et Control and t	al., "A Instrun	Digital Cam nentation, IE	nera for EE, pp	r Machine Vision," <i>20th</i> . 879-883 (September	Interna 1994).	ational Confe	erence on Ind	lustrial Electronics,
	AP	<u>58</u>	Stewart, R.W Communicat	/. and ion En	Pfann, E., "(gineering Jo	Oversa <i>urnal</i> , I	mpling and sigma-delta IEEE, pp. 37-47 (Febru	ı strateç ary 199	gies for data 98).	conversion,"	Electronics &
	AQ	<u>58</u>	Rudell, J.C. o	et al., " " IEEE	A 1.9-Ghz V Journal of S	Vide-B Solid-S	and IF Double Convers tate Circuits, IEEE, Vol	ion CM . 32, No	OS Receive o. 12, pp. 20	r for Cordles 71-2088 (De	s Telephone cember 1997).
	AR	<u>58</u>	English-lang Pages (Febr	uage A uary 7,	bstract of Ja 1997 - Date	apanes e of pul	e Patent Publication No dication of application).	o. 09-0;	36664, from	http://www1.	ipdl.jpo.go.jp, 2
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ATTY. DOCKET NO. 1744.1380000	APPLICATION NO. 10/719,058
FIRST NAMED INVENTOR Gregory S. Rawlins	
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	AA59	6,144	,331	11/20	000	Jiang					<u></u>
	AB59	6,018	3,553	01/20	000	Sanie	levici <i>et al</i> .				
	AC59	6,317	7,589 B1	11/20	001	Nash					
	AD59	5,058	3,107	10/19	991	Stone	e et al.				
	AE59	5,757	',858	05/19	998	Black et al.					
	AF59	6,531	,979 B1	03/20	003	Hynes					
	AG59	6,018	3,262	01/20	000	Noro	et al.				
	AH59	4,761	,798	08/19	988	Griso	wid, Jr. et al.				
	AI59	5,982		11/19	999	Baza	rjani <i>et al</i> .				
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	AN	<u>59</u>	Simoni, A. e Solid-State	et al., "A Circtuit	Single-Chip s, IEEE, Vol.	Optica 30, No	al Sensor with Analog I b. 7, pp. 800-806 (July	Memory for I 1995).	Motion E	etection," <i>IE</i>	EE Journal of
	AO	<u>59</u>	English Tra	nslation	of German I	Patent	Publication No. DE 19	6 48 915 A1,	.10 pag	es.	
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·····	AA60	6,459,721 B1	10/20			nizuki <i>et al.</i>	_		 	
	AB60 AC60	6,151,354 6,169,733 B1	01/20		Abbe Lee	<u> </u>	-			
	AD60	6,363,262 B1	03/20		McNi	col			 	
	AE60	6,697,603 B1	02/20			iggood et al.				
	AF60	5,282,222	01/19			uche et al.				
	AG60	5,949,827	09/19			ica et al.				
	AH60	6,014,176	01/20			bi et al.				†
	AI60	5,678,226	10/19		Li et					
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	AA61	5,760,632	06/19	998	Kawa	akami <i>et al</i> .				
	AB61	6,160,280	12/20	000	Bonn	et al.				
	AC61	5,481,570	01/19	996	Winte	ers				
	AD61	5,745,846	04/19	998	Myer	et al.				
	AE61	5,345,239	09/19	994	Madr	ni et al.		_	ļ	ļ
	AF61	4,132,952	01/19	979	Hong	ju <i>et al.</i>				
	AG61	5,260,973	11/19		+	anabe				
	AH61	6,307,894 B2	10/20		+	on et al.				
	Al61	6,091,289	07/20	000	Song	et al.				
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	AA62	6,437,639 B1	08/20	002	Nguy	en et al.			
	AB62	2002/0037706 A1	03/20	002	Ichih	ara			
	AC62	4,441,080	04/19	984	Saar	•			
	AD62	4,873,492	10/19	989	Myer	·			
	AE62	5,697,074	12/19	997	Maki	kallio et al.			
	AF62	5,784,689	07/19	998	Koba	yashi			<u></u>
	AG62	6,335,656 B1	01/20	002	Gold	farb et al.			
	AH62	6,690,232 B2	02/20	004	Uenc	et al.			
	AI62	5,636,140	06/19	997	Lee	et al.			
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	AA63	6,366,622 B1	04/20	002	Brow	n et al.	1			<u> </u>
	AB63	6,600,795 B1	07/20	-		et al.				
	AC63	4,250,458	02/19		Richi	mond <i>et al.</i>		_	*	
	AD63	5,760,629	06/19		+	e et al.				
	AE63	6,084,465	07/20		Dasc					
	AF63	6,204,789 B1	03/2		Naga					
	AG63	6,064,054	05/2			zynski <i>et al.</i>				
	AH63	5,218,562	06/1			hore et al.				
	AI63	5,239,496	08/1		+	raeynest				
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	AA64	5,896,304		999	Tiemann e	et al.				_
	AB64	6,005,903 12/1		999	Mendelovi	icz				
	AC64	5,834,979 11/19		998	Yatsuka					
	AD64	6,798,351 B1	09/2	004	Sorrells e	t al.				
	AE64	6,813,485 B2	11/2	004	Sorrells et	t al.				
	AF64	5,410,270 04/199 6,509,777 B2 01/200		995	Rybicki et	al.				
	AG64			003	Razavi et	al.				
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